

**Contents**

Page

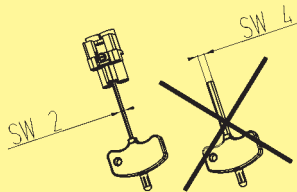
Han® Q 2/0 .....	<b>13.02</b>
Han® Q 2/0 High voltage .....	<b>13.04</b>
Han® Q 5/0 .....	<b>13.06</b>
Han® Q 7/0 .....	<b>13.08</b>
Hoods/Housings metal .....	<b>13.10</b>
Hoods/Housings thermoplastic .....	<b>13.11</b>
Han® Q 8/0 .....	<b>13.12</b>
Han® Q 17 .....	<b>13.14</b>
Han® Q 4/2 .....	<b>13.16</b>
Han® Q RJ45 .....	<b>13.18</b>
Hoods/housings Han-Compact® .....	<b>13.20</b>
Applications .....	<b>13.24</b>

## 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

### Notice

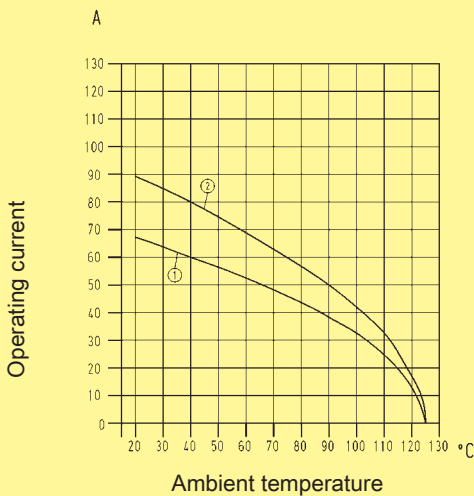
For termination please use only hexagonal screw driver with wrench size SW 2.



### Derating diagram

The power rating 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 EN 60 512-5



Wire gauge:                      ① 6 mm<sup>2</sup>  
     ② 10 mm<sup>2</sup>

## Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110
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### Inserts

Number of contacts	2 + PE
Electrical data acc. to EN 61 984	<b>40 A 400 V 6 kV 3</b>
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 <sup>10</sup> 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 <sup>2</sup>	4 ... 6 mm <sup>2</sup> (10 mm optional)
- AWG	12 ... 10 (8 optional)
Tightening torque	1.8 Nm
Stripping length	8 mm <sup>+1</sup>

### Plastic hoods/housings

Material	Polycarbonate
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 67

### Hoods/Housings, metal

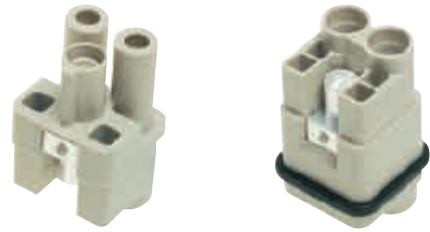
Material	zinc die-cast
Locking element	steel, zinc-plated
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 44
	IP 67 is achieved with seal screw 09 20 000 9918

### Accessories

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

Number of contacts

2 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Axial screw terminal	<b>09 12 002 2651</b>	<b>09 12 002 2751</b>	<p>Contact arrangement View from termination side</p>	
Coding element	<b>09 12 000 9922</b>	<b>09 12 000 9922</b>		

Han Q

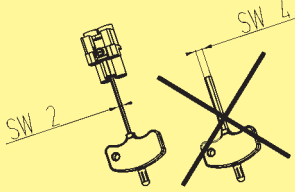
Identification	Part number	Drawing	Dimensions in mm
Hex key SW 2 for axial setscrew			
with grip	<b>09 99 000 0313</b>		
 adapter 1/4"	<b>09 99 000 0369</b>		

## 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)

### Notice

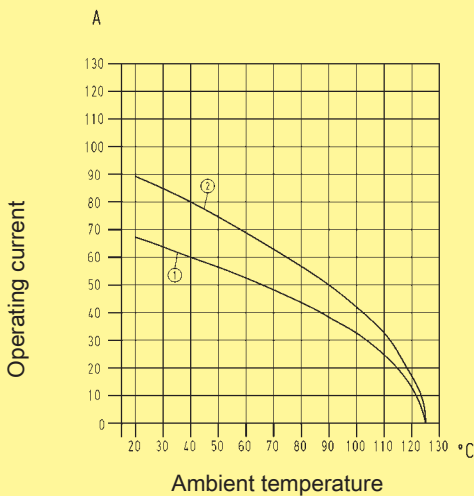
For termination please use only hexagonal screw driver with wrench size SW 2.



### Derating diagram

The power rating 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 EN 60 512-5



Wire gauge:

- ① 6 mm<sup>2</sup>
- ② 10 mm<sup>2</sup>

## Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110
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### Inserts

Number of contacts	2 + PE
Electrical data acc. to EN 61 984	<b>40 A 830 V 6 kV 3</b>
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	≥ 10 <sup>10</sup> 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
Contact resistance	3 μm Ag
Axial screw termination	≤ 1 mΩ
- mm <sup>2</sup>	4 ... 6 mm <sup>2</sup> (10 mm optional)
- AWG	12 ... 10 (8 optional)
Tightening torque	1.8 Nm
Stripping length	8 mm <sup>+1</sup>

### Plastic hoods/housings

Material	Polycarbonate
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 67

### Hoods/Housings, metal

Material	zinc die-cast
Locking element	steel, zinc-plated
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to 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

Number of contacts

2 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Axial screw terminal with heat shrink tube	<b>09 12 002 2652</b>	<b>09 12 002 2752</b>	<p>Contact arrangement View from termination side</p>	
Coding element	<b>09 12 000 9922</b>	<b>09 12 000 9922</b>		

Han Q

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

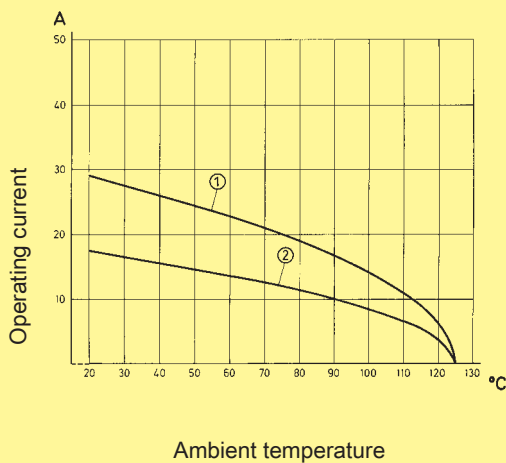
## Features

- 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

## Derating diagram

The power rating 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 EN 60 512-5



Wire gauge:                    ① 2.5 mm<sup>2</sup>  
                                       ② 1.5 mm<sup>2</sup>

## Technical characteristics

Specifications                    DIN EN 61 984  
     DIN VDE 0110

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<sup>10</sup> 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<sup>2</sup>                                0.14 ... 2.5 mm<sup>2</sup>  
 - AWG                                26 ... 14

### Plastic hoods/housings

Material                            Polycarbonate  
 Locking element                 Polyamide  
 Flammability acc. to UL 94        V 0  
 Hoods/Housings sealing         NBR  
 Limiting temperatures            -40 °C ... 125 °C  
 Degree of protection acc. to EN 60 529  
 for coupled connector            IP 67

### Hoods/Housings, metal

Material                            zinc die-cast  
 Locking element                 steel, zinc-plated  
 Hoods/Housings sealing         NBR  
 Limiting temperatures            -40 °C ... 125 °C  
 Degree of protection acc. to 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

Number of contacts

5 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<b>Crimp terminal</b> Order crimp contacts separately	<b>09 12 005 3001</b>	<b>09 12 005 3101</b>	<p>                         Contact arrangement View from termination side                     </p>	
<b>Coding pin</b> 	09 33 000 9954	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 (mm <sup>2</sup> )	Part number		Drawing	Dimensions in mm																												
		Male contact	Female contact																														
<b>Crimp contacts</b> 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 mm<sup>2</sup></td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>0.5 mm<sup>2</sup></td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove*</td> <td>0.75 mm<sup>2</sup></td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Rille</td> <td>1 mm<sup>2</sup></td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 grooves</td> <td>1.5 mm<sup>2</sup></td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 grooves</td> <td>2.5 mm<sup>2</sup></td> <td>AWG 14</td> <td>7.5 mm</td> </tr> </tbody> </table> <p>* on the back crimp collar</p>	Identification	Wire gauge		Stripping length	no groove	0.14-0.37 mm <sup>2</sup>	AWG 26-22	7.5 mm	no groove	0.5 mm <sup>2</sup>	AWG 20	7.5 mm	1 groove*	0.75 mm <sup>2</sup>	AWG 18	7.5 mm	1 Rille	1 mm <sup>2</sup>	AWG 18	7.5 mm	2 grooves	1.5 mm <sup>2</sup>	AWG 16	7.5 mm	3 grooves	2.5 mm <sup>2</sup>	AWG 14	7.5 mm
Identification	Wire gauge		Stripping length																														
no groove	0.14-0.37 mm <sup>2</sup>	AWG 26-22	7.5 mm																														
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1 groove*	0.75 mm <sup>2</sup>	AWG 18	7.5 mm																														
1 Rille	1 mm <sup>2</sup>	AWG 18	7.5 mm																														
2 grooves	1.5 mm <sup>2</sup>	AWG 16	7.5 mm																														
3 grooves	2.5 mm <sup>2</sup>	AWG 14	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																															
	1.5	09 33 000 6110																															
	2.5	09 33 000 6111																															
<b>F.O. contacts</b> for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321																														

Crimp contacts 0.14 ... 0.37 mm<sup>2</sup> only used with BUCHANAN crimping tool 09 99 000 0001 and adjustment gauge 09 99 000 0203

Stock items in bold type

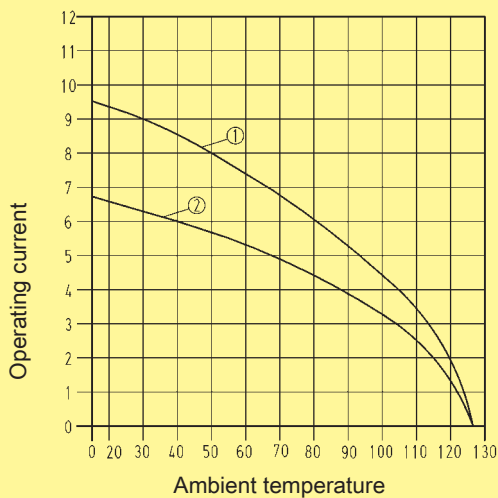
## Features

- 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

## Derating diagram

The power rating 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 EN 60 512-5



Wire gauge:                      ① 1.5 mm<sup>2</sup>  
     ② 0.75 mm<sup>2</sup>

## Technical characteristics

Specifications                      DIN EN 61 984  
     DIN VDE 0110

Approvals                              

### Inserts

Number of contacts	7 + PE
Electrical data	
acc. to EN 61 984	<b>10 A 400 V 6 kV 3</b>
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 <sup>10</sup> 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 <sup>2</sup>	0.14 ... 2.5 mm <sup>2</sup>
- AWG	26 ... 14
PE screw terminal	
- mm <sup>2</sup>	2.5 mm <sup>2</sup>
- AWG	14

### Plastic hoods/housings

Material	Polycarbonate
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529	
for coupled connector	IP 67

### Hoods/Housings, metal

Material	zinc die-cast
Locking element	steel, zinc-plated
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529	
for coupled connector	IP 44
	IP 67 is achieved with seal screw 09 20 000 9918

### Accessories

Crimping tools	chapter 99
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Number of contacts

7 +




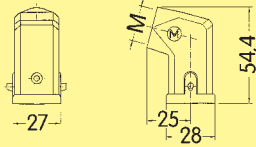

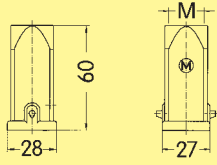


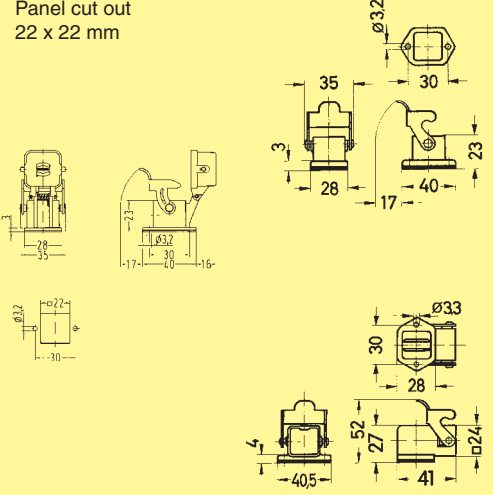



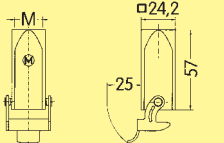
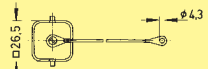
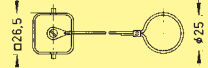
Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	<b>09 12 007 3001</b>	<b>09 12 007 3101</b>	<p>Contact arrangement View from termination side</p>	
Coding pins 	09 12 000 9901	09 12 000 9902		

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*	<b>09 15 000 6104</b> <b>09 15 000 6103</b> <b>09 15 000 6105</b> <b>09 15 000 6102</b> <b>09 15 000 6101</b> <b>09 15 000 6106</b>	<b>09 15 000 6204</b> <b>09 15 000 6203</b> <b>09 15 000 6205</b> <b>09 15 000 6202</b> <b>09 15 000 6201</b> <b>09 15 000 6206</b>																																					
gold plated 	0.14-0.37 0.5 0.75 1 1.5 2.5*	<b>09 15 000 6124</b> <b>09 15 000 6123</b> <b>09 15 000 6125</b> <b>09 15 000 6122</b> <b>09 15 000 6121</b> <b>09 15 000 6126</b>	<b>09 15 000 6224</b> <b>09 15 000 6223</b> <b>09 15 000 6225</b> <b>09 15 000 6222</b> <b>09 15 000 6221</b> <b>09 15 000 6226</b>	<table border="1"> <thead> <tr> <th colspan="3">Wire gauge</th> <th>∅</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37</td> <td>mm²</td> <td>AWG 26-22</td> <td>0.9</td> <td>8 mm</td> </tr> <tr> <td>0.5</td> <td>mm²</td> <td>AWG 20</td> <td>1.1</td> <td>8 mm</td> </tr> <tr> <td>0.75</td> <td>mm²</td> <td>AWG 18</td> <td>1.3</td> <td>8 mm</td> </tr> <tr> <td>1</td> <td>mm²</td> <td>AWG 18</td> <td>1.45</td> <td>8 mm</td> </tr> <tr> <td>1.5</td> <td>mm²</td> <td>AWG 16</td> <td>1.75</td> <td>8 mm</td> </tr> <tr> <td>2.5</td> <td>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																																				
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																																				
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

Identification		Part No.	M	Drawing	Dimensions in mm
Hoods	Hood side-entry 	<b>19 20 003 1640</b>	20		54,4 27 25 28
	Hood top-entry 	<b>19 20 003 1440</b>	20		60 28 27
	Protection covers for hoods	<b>09 20 003 5422<sup>1)</sup></b> <b>09 20 003 5421<sup>2)</sup></b>			ø24 ø25
Housings	Housings bulkhead mounting 	<b>09 20 003 0301</b>			Panel cut out 22 x 22 mm
	with fixed cover	<b>09 20 003 0305<sup>1)</sup></b>			
	without sealing	<b>09 20 003 0306<sup>2)</sup></b>			
	with sealing	<b>09 20 003 0801</b>			
	Housing surface mounting 1 side-entry 	<b>19 20 003 1250</b>	20		
	bottom closed	<b>19 20 003 1252</b>	20		
	Housing screw mounting 	<b>19 20 003 1150</b>	20		
Hood cable to cable 	<b>19 20 003 1750</b>	20		ø24,2 57 25	
Protection covers for housings	<b>09 20 003 5426<sup>1)</sup></b> <b>09 20 003 5425<sup>2)</sup></b>			ø26,5 ø4,3	
for hoods cable to cable	<b>09 20 003 5428<sup>1)</sup></b> <b>09 20 003 5427<sup>2)</sup></b>			ø26,5 ø25	

<sup>1)</sup> for mounted male insert    <sup>2)</sup> for mounted female insert

Identification		Part No.	M	Drawing	Dimensions in mm	
Hoods	Hoods side-entry	grey 19 20 003 0620 black 19 20 003 0627	20 20			
	Hoods top-entry	grey <b>19 20 003 0420</b> black 19 20 003 0427	20 20			
	Protection covers for hoods	09 20 003 5442 <sup>1)</sup> 09 20 003 5441 <sup>2)</sup>				
Housings	Housings bulkhead mounting	grey <b>09 20 003 0320</b> black <b>09 20 003 0327</b>	— —		Panel cut out 22 x 22 mm	
		grey <b>09 20 003 0820</b> black <b>09 20 003 0827</b>	— —			
		grey <b>09 20 003 0820</b> black <b>09 20 003 0827</b>	— —			
		grey <b>09 20 003 0820</b> black <b>09 20 003 0827</b>	— —			
	Housings surface mounting 1 side-entry	grey <b>19 20 003 0220</b> black <b>19 20 003 0227</b>	20 20		Panel cut out 22 x 22 mm	
Hoods cable to cable	grey <b>19 20 003 0720</b> black 19 20 003 0727	20 20				
Protection covers for housings	A B C	09 20 003 5407 <sup>1)3)</sup> <b>09 20 003 5408<sup>2)3)4)</sup></b> <b>09 20 003 5445<sup>2)</sup></b> 09 20 003 5446 <sup>1)</sup> 09 20 003 5447 <sup>2)3)4)</sup> 09 20 003 5448 <sup>1)</sup>				

Han Q

<sup>1)</sup> for mounted male insert  
<sup>2)</sup> for mounted female insert

<sup>3)</sup> for metal housings and cable to cable hoods also  
<sup>4)</sup> for mounted Han-Brid® male and female insert

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
- DESINA conform product



## Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110
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Approvals	
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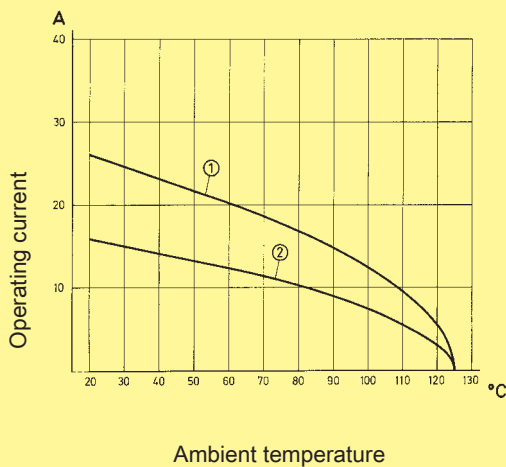
### Inserts

Number of contacts	8 + PE
Electrical data acc. to EN 61 984	
Mounted plastic hood	<b>16 A 500 V 6 kV 3</b>
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	$\geq 10^{10} \Omega$
Material	Polycarbonate
Limiting temperatures	-40 °C ... 125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	$\geq 500$

### Derating diagram

The power rating 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 EN 60 512-5



Wire gauge:	① 2.5 mm <sup>2</sup>
	② 1.5 mm <sup>2</sup>

### Contacts

Material	copper alloy
Surface	
- hard-silver plated	3 µm Ag
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	$\leq 1 \text{ m}\Omega$
Crimp terminal	
- mm <sup>2</sup>	0.14 ... 4 mm <sup>2</sup> partly loaded up to 4 mm <sup>2</sup> is possible
- AWG	26 ... 12

### Plastic hoods/housings

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

### Hoods/Housings, metal

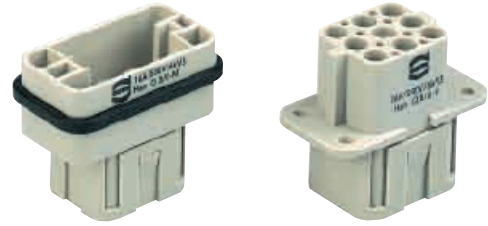
Material	zinc die-cast
Locking element	V2A steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

### Accessories

Crimping tools	chapter 99
----------------	------------

Number of contacts

8 +



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
<b>Crimp terminal</b> Order crimp contacts separately	<b>09 12 008 3001</b>	<b>09 12 008 3101</b>	<p>Contact arrangement View from termination side</p>	
<b>Coding pin</b> 	09 33 000 9954	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 (mm <sup>2</sup> )	Part number		Drawing	Dimensions in mm																																
		Male contact	Female contact																																		
<b>Crimp contacts</b> 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 mm<sup>2</sup></td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>0.5 mm<sup>2</sup></td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove*</td> <td>0.75 mm<sup>2</sup></td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 Rille</td> <td>1 mm<sup>2</sup></td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 grooves</td> <td>1.5 mm<sup>2</sup></td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 grooves</td> <td>2.5 mm<sup>2</sup></td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>4 mm<sup>2</sup></td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> <p>* on the back crimp collar</p>	Identification	Wire gauge		Stripping length	no groove	0.14-0.37 mm <sup>2</sup>	AWG 26-22	7.5 mm	no groove	0.5 mm <sup>2</sup>	AWG 20	7.5 mm	1 groove*	0.75 mm <sup>2</sup>	AWG 18	7.5 mm	1 Rille	1 mm <sup>2</sup>	AWG 18	7.5 mm	2 grooves	1.5 mm <sup>2</sup>	AWG 16	7.5 mm	3 grooves	2.5 mm <sup>2</sup>	AWG 14	7.5 mm	no groove	4 mm <sup>2</sup>	AWG 12	7.5 mm	
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gold plated 	0.14-0.37	09 33 000 6117	09 33 000 6217																																		
	0.5	<b>09 33 000 6122</b>	<b>09 33 000 6222</b>																																		
	0.75	<b>09 33 000 6115</b>	<b>09 33 000 6215</b>																																		
	1	<b>09 33 000 6118</b>	<b>09 33 000 6218</b>																																		
	1.5	<b>09 33 000 6116</b>	<b>09 33 000 6216</b>																																		
	2.5	<b>09 33 000 6123</b>	<b>09 33 000 6223</b>																																		
	4	09 33 000 6107	09 33 000 6207																																		
Relay contact silver plated 	0.75-1	09 33 000 6109	09 33 000 6221																																		
	1.5	09 33 000 6110																																			
	2.5	09 33 000 6111																																			
<b>F.O. contacts</b> for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321																																		

Crimp contacts 0.14 ... 0.37 mm<sup>2</sup> only used with BUCHANAN crimping tool 09 99 000 0001 and adjustment gauge 09 99 000 0203

Stock items in bold type

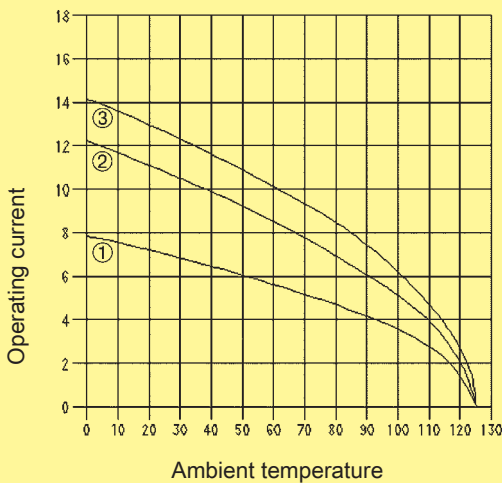
## Features

- 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

## Derating diagram

The power rating 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 EN 60 512-5



Wire gauge:                    ① 0.5 mm<sup>2</sup>  
                                       ② 1.0 mm<sup>2</sup>  
                                       ③ 1.5 mm<sup>2</sup>

## 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<sup>10</sup> 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<sup>2</sup>                                0.14 ... 2.5 mm<sup>2</sup>  
 - AWG                                26 ... 14

### Plastic hoods/housings

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

### Hoods/Housings, metal

Material                              zinc die-cast  
 Locking element                    V2A steel  
 Hoods/Housings sealing         NBR  
 Limiting temperatures            -40 °C ... 125 °C  
 Degree of protection acc. to 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	<b>09 12 017 3001</b>	<b>09 12 017 3101</b>	<p>41,6 32,2 22,4 18,7 38,7 13,4 16,7 36,7 2,9x9,5 41,6 22,4</p> <p>M F</p> <p>Contact arrangement View from termination side</p>	

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	<b>09 15 000 6104</b> <b>09 15 000 6103</b> <b>09 15 000 6105</b> <b>09 15 000 6102</b> <b>09 15 000 6101</b> <b>09 15 000 6106</b>	<b>09 15 000 6204</b> <b>09 15 000 6203</b> <b>09 15 000 6205</b> <b>09 15 000 6202</b> <b>09 15 000 6201</b> <b>09 15 000 6206</b>		<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</td> <td>mm² AWG 26-22</td> <td>0.9</td> <td>8 mm</td> </tr> <tr> <td>0.5</td> <td>mm² AWG 20</td> <td>1.1</td> <td>8 mm</td> </tr> <tr> <td>0.75</td> <td>mm² AWG 18</td> <td>1.3</td> <td>8 mm</td> </tr> <tr> <td>1</td> <td>mm² AWG 18</td> <td>1.45</td> <td>8 mm</td> </tr> <tr> <td>1.5</td> <td>mm² AWG 16</td> <td>1.75</td> <td>8 mm</td> </tr> <tr> <td>2.5</td> <td>mm² 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
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F.O. contacts for 1 mm plastic fibre		<b>20 10 001 3211</b>	<b>20 10 001 3221</b>																														

Insert with crimp contacts 2.5 mm² partly loaded

Stock items in bold type

Han Q

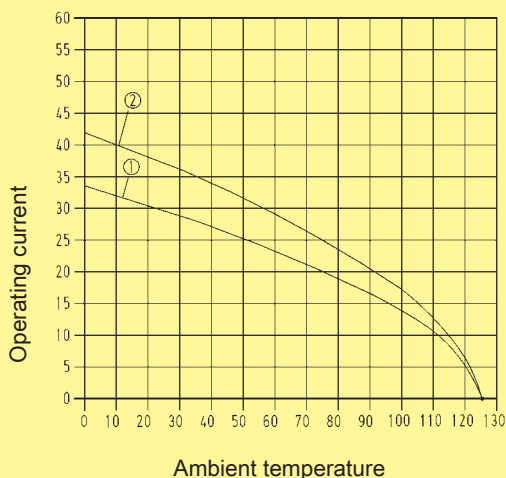
## Features

- 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)
- 3 coding possibilities by using a coding pin instead of fixing screw

## Derating diagram

The power rating 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 EN 60 512-5



Wire gauge:                    ① 2.5 mm<sup>2</sup>  
    ② 4 mm<sup>2</sup>

## Technical characteristics

Specifications                    DIN EN 61 984  
    DIN VDE 0110

Approvals                         

### Inserts

Number of contacts	4 / 2 + PE
Electrical data	
acc. to EN 61 984	
Power side	<b>40 A 400/690 V 6 kV 3</b>
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	<b>10 A 250 V 4 kV 3</b>
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 <sup>10</sup> 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 <sup>2</sup>	1.5 ... 6 mm <sup>2</sup> / 0.14 ... 2.5 mm <sup>2</sup>
- AWG	16 ... 10 / 26 ... 14
Max. insulation diameter	
- Power contacts	5 mm

### Plastic hoods/housings

Material	Polycarbonate
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to 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	<b>09 12 006 3041</b>	<b>09 12 006 3141</b>	<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	<b>09 32 000 6104</b> <b>09 32 000 6105</b> <b>09 32 000 6107</b> <b>09 32 000 6108</b>	<b>09 32 000 6204</b> <b>09 32 000 6205</b> <b>09 32 000 6207</b> <b>09 32 000 6208</b>		<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>∅</th> <th colspan="2">Stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5</td> <td>mm²</td> <td>AWG 16</td> <td>1.75</td> <td>9 mm</td> </tr> <tr> <td>2.5</td> <td>mm²</td> <td>AWG 14</td> <td>2.25</td> <td>9 mm</td> </tr> <tr> <td>4</td> <td>mm²</td> <td>AWG 12</td> <td>2.85</td> <td>9.6 mm</td> </tr> <tr> <td>6</td> <td>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										
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Han D® contacts Signal contacts  silver plated	0.14-0.37 0.5 0.75 1 1.5 2.5	<b>09 15 000 6104</b> <b>09 15 000 6103</b> <b>09 15 000 6105</b> <b>09 15 000 6102</b> <b>09 15 000 6101</b> <b>09 15 000 6106</b>	<b>09 15 000 6204</b> <b>09 15 000 6203</b> <b>09 15 000 6205</b> <b>09 15 000 6202</b> <b>09 15 000 6201</b> <b>09 15 000 6206</b>		<table border="1"> <thead> <tr> <th colspan="2">Wire gauge</th> <th>∅</th> <th colspan="2">Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37</td> <td>mm²</td> <td>AWG 26-22</td> <td>0.9</td> <td>8 mm</td> </tr> <tr> <td>0.5</td> <td>mm²</td> <td>AWG 20</td> <td>1.1</td> <td>8 mm</td> </tr> <tr> <td>0.75</td> <td>mm²</td> <td>AWG 18</td> <td>1.3</td> <td>8 mm</td> </tr> <tr> <td>1</td> <td>mm²</td> <td>AWG 18</td> <td>1.45</td> <td>8 mm</td> </tr> <tr> <td>1.5</td> <td>mm²</td> <td>AWG 16</td> <td>1.75</td> <td>8 mm</td> </tr> <tr> <td>2.5</td> <td>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
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gold plated	0.14-0.37 0.5 0.75 1 1.5 2.5	<b>09 15 000 6124</b> <b>09 15 000 6123</b> <b>09 15 000 6125</b> <b>09 15 000 6122</b> <b>09 15 000 6121</b> <b>09 15 000 6126</b>	<b>09 15 000 6224</b> <b>09 15 000 6223</b> <b>09 15 000 6225</b> <b>09 15 000 6222</b> <b>09 15 000 6221</b> <b>09 15 000 6226</b>																																					

Han Q

13  
17

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 EN 61 984 DIN VDE 0110
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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
<b>Signal side</b>	
Number of contacts	10
Electrical data	
acc. to EN 61 984	<b>5 A 50 V 0.8 kV 3</b>
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3

Insulation resistance	≥ 10 <sup>10</sup> 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 <sup>2</sup>	0.13 ... 0.52 mm <sup>2</sup>
- 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

### Plastic hoods/housings

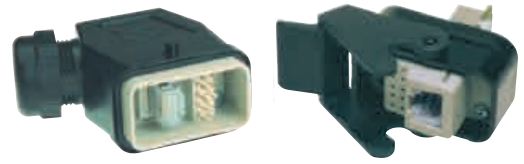
Material	Polycarbonate
Locking element	Polyamide
Flammability acc. to UL 94	V 0
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

### Hoods/Housings, metal

Material	zinc die-cast
Locking element	V2A steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to 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><b>Crimp terminal</b></p> <p>Order crimp contacts separately female insert usable for panel feed through for patch cables</p>	<b>09 12 011 3001</b>	<b>09 12 011 3111</b>	<p>45.1, 32.7, 25.9, 13.5, 16.7, 26.2, 32.7, 41.6, 13.4, 22.5, 42.7, 5.7</p> <p>Contact arrangement View from termination side</p>	

Han Q

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm									
		Male contact	Female contact											
<p><b>Individual contacts</b></p> <p>Han® D Kontakte silver plated</p>	<p>0.13-0.33</p> <p>0.33-0.52</p>	<p><b>61 03 000 0094</b></p> <p><b>61 03 000 0073</b></p>	<p><b>61 03 000 0096</b></p> <p><b>61 03 000 0074</b></p>	<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												

13  
19

Stock items in bold type



thermoplastic / metal

Identification	Part number	Drawing	Dimensions in mm											
<b>Hoods</b> Hoods Metal side-entry Cable gland order separately	<b>19 12 008 0526</b>	M 25												
<b>Hoods</b> 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	M 25  M 25  M 25												
<b>Hoods</b> Metal top-entry Cable gland order separately	<b>19 12 008 0426</b>	M 25												
<b>Cable seal</b> Metal for hoods Thrust bolt and insert	<b>19 12 000 5057</b> <b>19 12 000 5058</b>	M 25 M 25	 <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												
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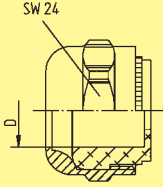

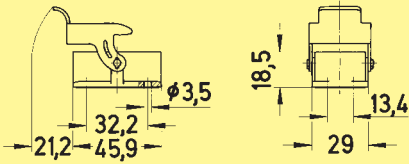
Han Q

Identification	Part number		Drawing	Dimensions in mm
	for male insert	for female insert		
<b>Protection covers</b> 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						
<b>Housings</b> Housings, bulkhead mounting Thermoplastic angled	<b>09 12 008 0902</b>	Pg 16							
Housings, bulkhead mounting Thermoplastic	<b>09 12 008 0327</b>	Pg 16							
Gasket for housings bulkhead mounting Han® Q 8/0	<b>09 12 000 9912</b>								
<b>Housings, surface mounting</b> Thermoplastic angled Cable gland order separately	<b>09 12 008 0901</b>	Pg 16							
<b>Hoods, cable to cable</b> Thermoplastic Cable gland order separately	<b>09 12 008 0727</b> <b>19 12 008 0729</b>	Pg 16 M 25	<table border="1" data-bbox="976 1966 1161 2056"> <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
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13	Pg 16								
14	M 25x1.5								

thermoplastic / metal

Identification	Part number	Drawing	Dimensions in mm								
<p><b>Housings</b></p> <p><b>Cable seal</b></p> <p>Thermoplastic for housings Thrust bolt and insert</p> 	<p>09 00 000 5058</p>	<p>Pg 16</p>	 <table border="1" data-bbox="1010 566 1401 658"> <thead> <tr> <th rowspan="2">09 00 000 5058</th> <th colspan="2">cable</th> </tr> <tr> <th>min.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td></td> <td>11.5 mm</td> <td>15.5 mm</td> </tr> </tbody> </table>	09 00 000 5058	cable		min.	max.		11.5 mm	15.5 mm
09 00 000 5058	cable										
	min.	max.									
	11.5 mm	15.5 mm									
<p><b>Housings, bulkhead mounting</b></p> <p>Metal</p> 	<p>black chromated <b>09 12 008 0301</b></p> <p>black powder coated <b>09 12 708 0301</b></p> <p>matt nickel plated <b>09 12 008 0303</b></p>										

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

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Q