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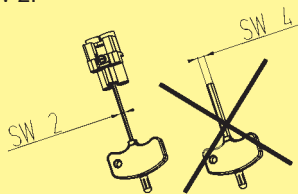
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Features

- 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

Notice

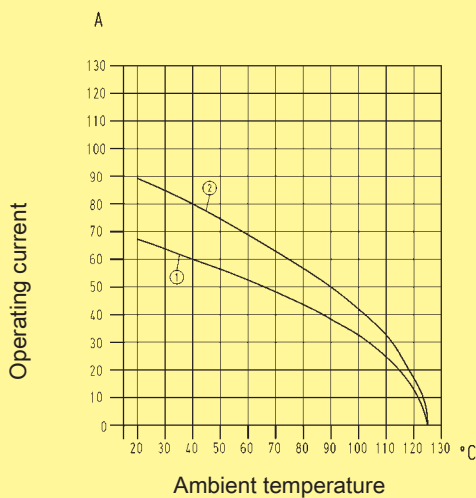
For termination please use only hexagonal screw driver with wrench size SW 2.



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 mm²

② 10 mm²

Technical characteristics

Specifications

DIN EN 61 984
DIN VDE 0110

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 $\geq 10^{10} \Omega$
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

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

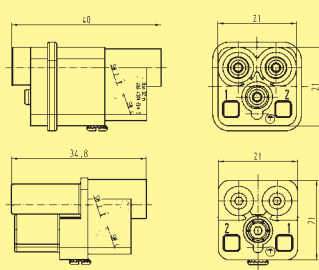
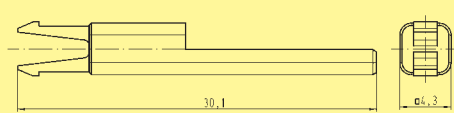
Material zinc die-cast
Locking element steel, zinc-plated
Hoods/Housings sealing NBR
Limiting temperatures -40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector IP 44
IP 67 is achieved with seal screw 09 20 000 9918

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	09 12 002 2651	09 12 002 2751	 Contact arrangement View from termination side	
Coding element	09 12 000 9922	09 12 000 9922		

Han
Q

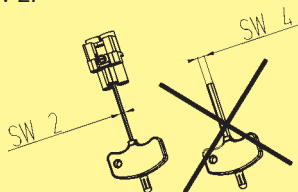
Identification	Part number	Drawing	Dimensions in mm
Hex key SW 2 for axial setscrew			
with grip	09 99 000 0313		
 adapter 1/4"	09 99 000 0369		
			

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)

Notice

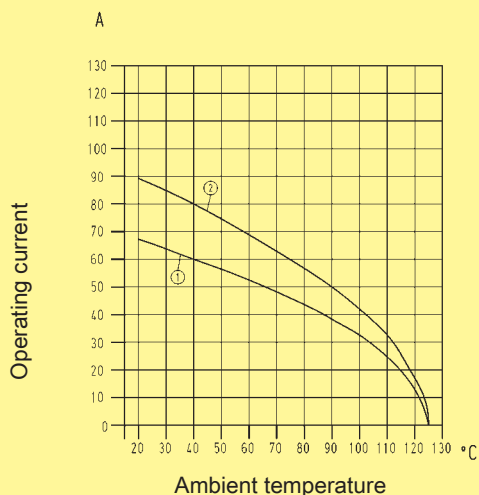
For termination please use only hexagonal screw driver with wrench size SW 2.



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 mm²

② 10 mm²

Technical characteristics

Specifications

DIN EN 61 984
DIN VDE 0110

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

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

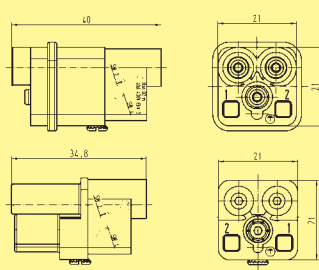
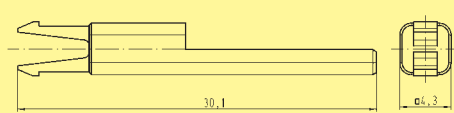
Material zinc die-cast
Locking element steel, zinc-plated
Hoods/Housings sealing NBR
Limiting temperatures -40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector IP 44
IP 67 is achieved with seal screw 09 20 000 9918

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	09 12 002 2652	09 12 002 2752	 Contact arrangement View from termination side	
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		
			

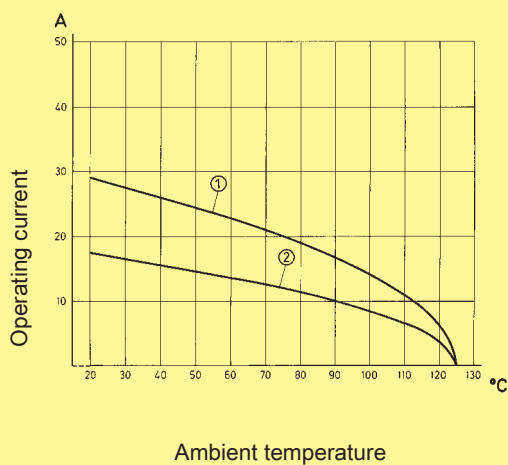
Features

- 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 mm²

② 1.5 mm²

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 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	
- mm²	0.14 ... 2.5 mm²
- 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	IP 67
for coupled connector	

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	IP 44
for coupled connector	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)		
Crimp terminal Order crimp contacts separately	09 12 005 3001	09 12 005 3101		Contact arrangement View from termination side
Coding pin 	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.

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 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		Operating contact Identification
gold plated 	0.14-0.37 0.5 0.75 1 1.5 2.5	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
Relay contact silver plated 	0.75-1 1.5 2.5	09 33 000 6109 09 33 000 6110 09 33 000 6111			

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 Rille	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

Identification	Wire gauge (mm²)	Part number	Drawing	Dimensions in mm
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 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

Technical characteristics

Specifications	DIN EN 61 984 DIN VDE 0110
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Approvals	
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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	$\geq 10^{10} \Omega$
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
- hard-gold plated	2 μm Au over 3 μm Ni
Contact resistance	$\leq 3 \text{ m}\Omega$
Crimp terminal	
- mm ²	0.14 ... 2.5 mm ²
- AWG	26 ... 14
PE screw terminal	
- mm ²	2.5 mm ²
- 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

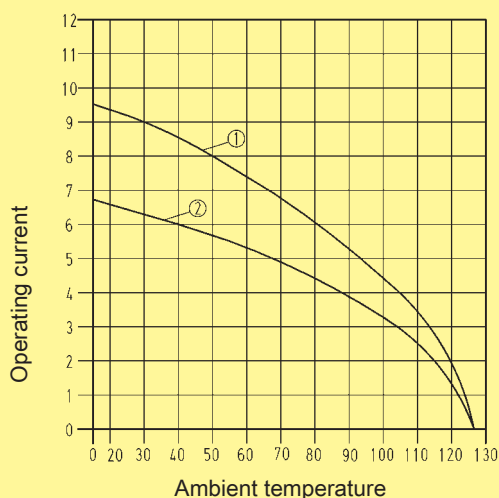
Accessories

Crimping tools	chapter 99
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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

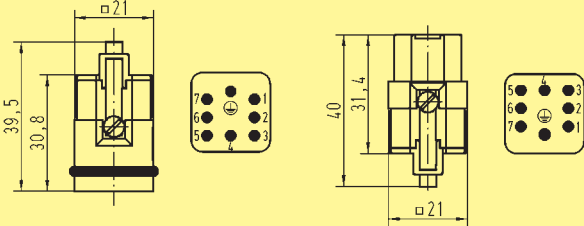
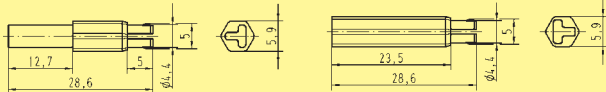


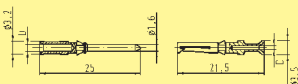
Wire gauge: ① 1.5 mm²
 ② 0.75 mm²

Number of contacts

7 +

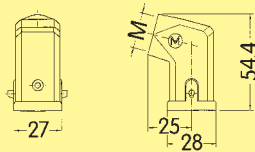
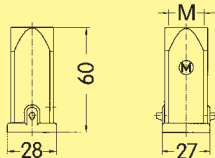
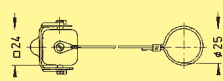
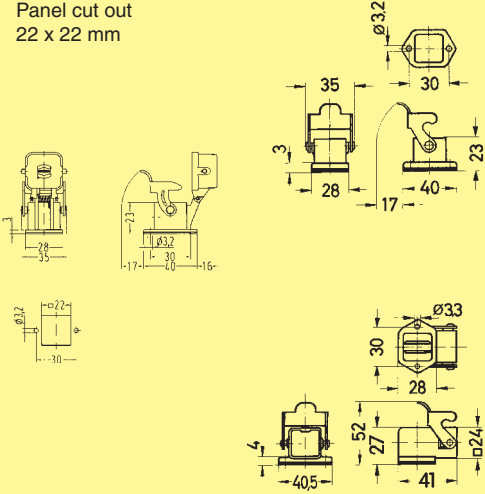
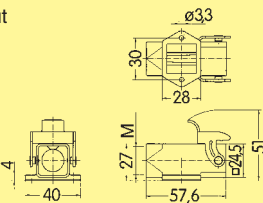
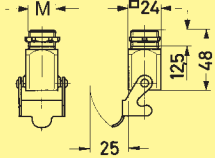
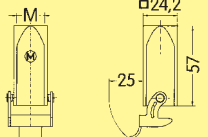
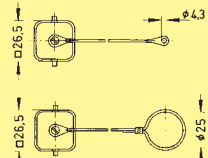


Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately	09 12 007 3001	09 12 007 3101		Contact arrangement View from termination side
Coding pins 	09 12 000 9901	09 12 000 9902		

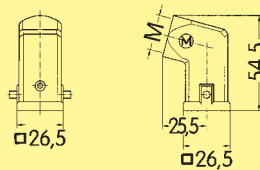
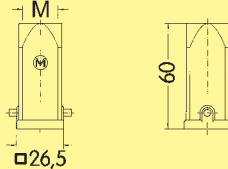
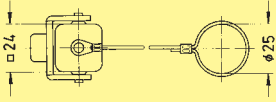
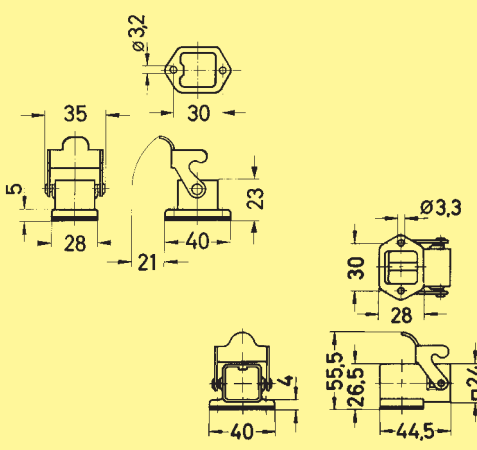
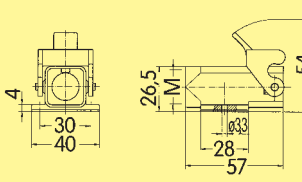
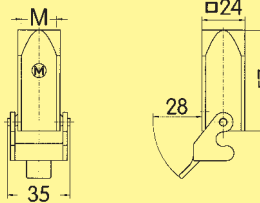
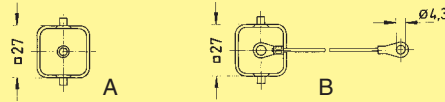
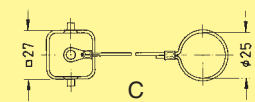
Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																																			
		Male contact	Female contact																																					
Crimp contacts Power contacts silver plated 	0.14-0.37 0.5 0.75 1 1.5 2.5*	09 15 000 6104 09 15 000 6103 09 15 000 6105 09 15 000 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><tr><th colspan="3">Wire gauge</th><th>Ø</th><th>Stripping length</th></tr><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></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	
Wire gauge			Ø	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

Identification		Part No.	M	Drawing	Dimensions in mm
Hoods	Hood side-entry		19 20 003 1640	20	
	Hood top-entry		19 20 003 1440	20	
	Protection covers for hoods		09 20 003 5422¹⁾ 09 20 003 5421²⁾		
Housings	Housings bulkhead mounting		09 20 003 0301		Panel cut out 22 x 22 mm 
	with fixed cover		09 20 003 0305¹⁾		
	without sealing		09 20 003 0306²⁾		
	with sealing		09 20 003 0801		
	Housing surface mounting		19 20 003 1250	20	Panel cut out 22 x 22 mm 
	1 side-entry		19 20 003 1250	20	
	bottom closed		19 20 003 1252	20	
	Housing screw mounting		19 20 003 1150	20	
	Hood cable to cable		19 20 003 1750	20	
	Protection covers for housings		09 20 003 5426¹⁾ 09 20 003 5425²⁾		
	for hoods cable to cable		09 20 003 5428¹⁾ 09 20 003 5427²⁾		

¹⁾ for mounted male insert ²⁾ 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 19 20 003 0420 black 19 20 003 0427	20 20	
	Protection covers for hoods		09 20 003 5442 ¹⁾ 09 20 003 5441 ²⁾		
Housings	Housings bulkhead mounting		grey 09 20 003 0320 black 09 20 003 0327	— —	
			grey 09 20 003 0820 black 09 20 003 0827	— —	
	Housings surface mounting 1 side-entry		grey 19 20 003 0220 black 19 20 003 0227	20 20	
	Hoods cable to cable		grey 19 20 003 0720 black 19 20 003 0727	20 20	
	Protection covers for housings	A	09 20 003 5407 ¹⁾³⁾ 09 20 003 5408 ²⁾³⁾⁴⁾		
		B	09 20 003 5445 ²⁾ 09 20 003 5446 ¹⁾ 09 20 003 5447 ²⁾³⁾⁴⁾ 09 20 003 5448 ¹⁾		
	for hoods cable to cable	C			

¹⁾ for mounted male insert
²⁾ for mounted female insert

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

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

Approvals

Inserts

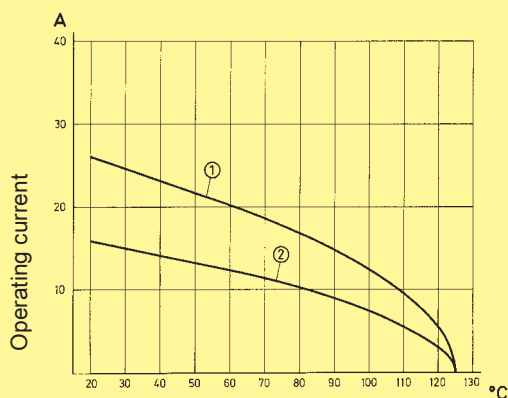
Number of contacts	8 + PE
Electrical data acc. to EN 61 984	
Mounted plastic hood	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400/690 V 6 kV 2
Mounted metal hood	16 A 230/400 V 4 kV 3

Rated voltage acc. to UL/CSA	500 V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Limiting temperatures	-40 °C ... 125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

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



Ambient temperature

Wire gauge: ① 2.5 mm²
② 1.5 mm²

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	
- mm²	0.14 ... 4 mm² partly loaded up to 4 mm² 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

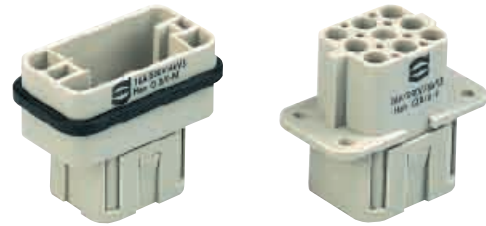
Material	zinc die-cast
Locking element	V2A steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529 for coupled connector	IP 65

Accessories

Crimping tools	chapter 99
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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		Contact arrangement View from termination side
Coding pin 	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 (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 4	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 6107	09 33 000 6227 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6207		Operating contact Identification Relay contact
gold plated 	0.14-0.37 0.5 0.75 1 1.5 2.5 4	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 6119	09 33 000 6217 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221		
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		

Crimp contacts 0.14 ... 0.37 mm² 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

Technical characteristics

Specifications	DIN VDE 0110 DIN EN 61 984
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Approvals	
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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	$\geq 10^{10} \Omega$
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
- hard-gold plated	2 µm Au over 3 µm Ni
Contact resistance	$\leq 3 \text{ m}\Omega$
Crimp terminal	
- mm²	0.14 ... 2.5 mm²
- 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

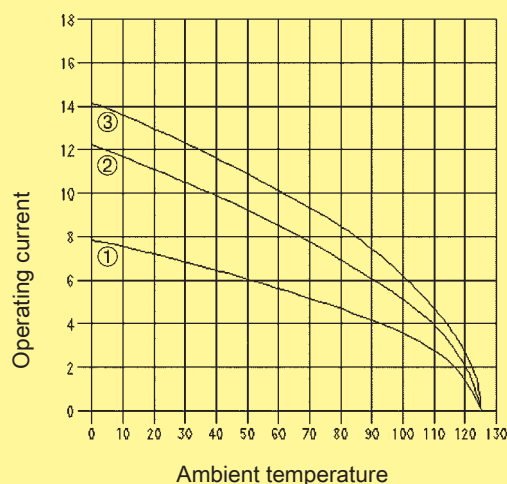
Hoods/Housings, metal

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

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 mm²
	② 1.0 mm²
	③ 1.5 mm²

Accessories

Crimping tools	chapter 99
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17 + 



Han
Q

13
15

Stock items in bold type

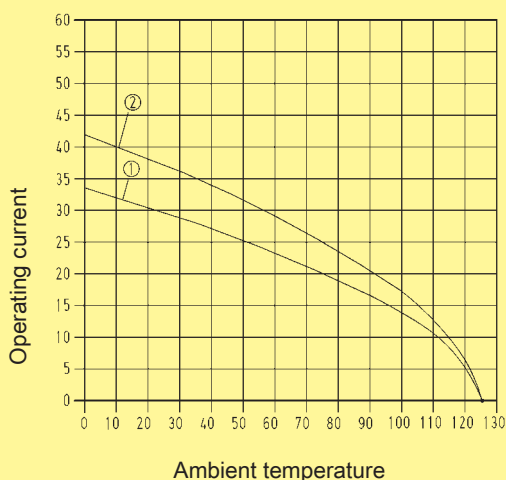
Features

- 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)
- 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 mm²
 ② 4 mm²

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	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	
- mm²	1.5 ... 6 mm² / 0.14 ... 2.5 mm²
- 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

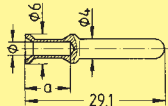
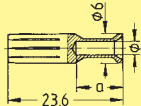
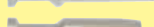
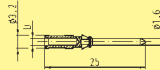
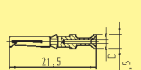
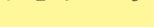
Crimping tools	chapter 99
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Number of contacts

4/2 +



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

Identification		Wire gauge (mm ²)	Part number		Drawing	Dimensions in mm
			Male contact	Female contact		
Crimp contacts						
Han® C contacts						
Power contacts						
silver plated		1.5	09 32 000 6104	09 32 000 6204		
		2.5	09 32 000 6105	09 32 000 6205		
		4	09 32 000 6107	09 32 000 6207		
		6	09 32 000 6108	09 32 000 6208		
Han D® contacts						
Signal contacts						
silver plated		0.14-0.37	09 15 000 6104	09 15 000 6204		
		0.5	09 15 000 6103	09 15 000 6203		
		0.75	09 15 000 6105	09 15 000 6205		
		1	09 15 000 6102	09 15 000 6202		
		1.5	09 15 000 6101	09 15 000 6201		
		2.5	09 15 000 6106	09 15 000 6206		
gold plated		0.14-0.37	09 15 000 6124	09 15 000 6224		
		0.5	09 15 000 6123	09 15 000 6223		
		0.75	09 15 000 6125	09 15 000 6225		
		1	09 15 000 6122	09 15 000 6222		
		1.5	09 15 000 6121	09 15 000 6221		
		2.5	09 15 000 6126	09 15 000 6226		

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
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

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

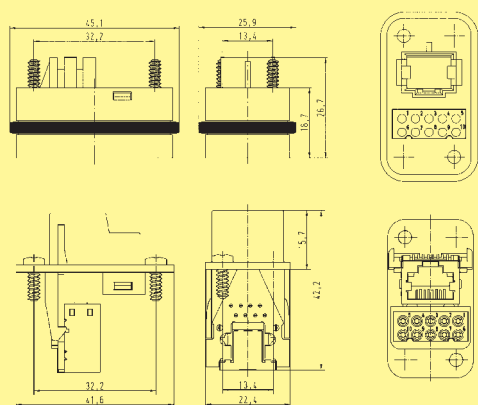
Material	zinc die-cast
Locking element	V2A steel
Hoods/Housings sealing	NBR
Limiting temperatures	-40 °C ... 125 °C
Degree of protection acc. to EN 60 529	
for coupled connector	IP 65

* Performance level 1 acc. to CECC 75 301-802, 500 mating cycles, 10 days 4 mixed gas test as per IEC 60 512

Number of contacts

8



Identification	Part number		Drawing	Dimensions in mm
	Male insert (M)	Female insert (F)		
Crimp terminal Order crimp contacts separately female insert usable for panel feed through for patch cables	09 12 011 3001	09 12 011 3111	 Contact arrangement View from termination side	

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

Stock items in bold type

thermoplastic / metal

Identification

Part number

Drawing

Dimensions in mm

Hoods

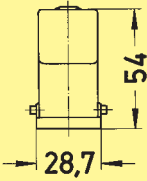
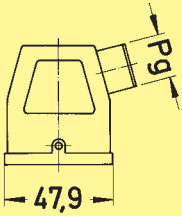
Hoods

Thermoplastic
side-entry
Cable gland order separately



09 12 008 0527

Pg 16



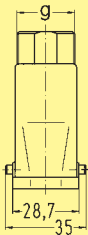
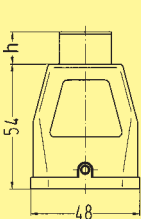
Hoods

Thermoplastic
top-entry
Cable gland order separately



19 12 008 0429
09 12 008 0427
09 12 008 0429

M 25
Pg 16
Pg 21



h	g
14	M 25x1.5
13	Pg 16
13	Pg 21

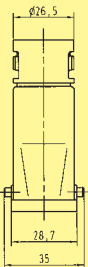
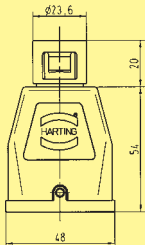
Hoods

Thermoplastic
top-entry
Cable gland order separately



09 12 008 0428

Pg 16



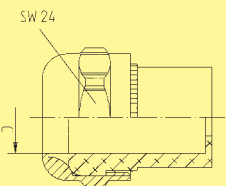
Cable seal

Thermoplastic
for hoods
Thrust bolt and insert



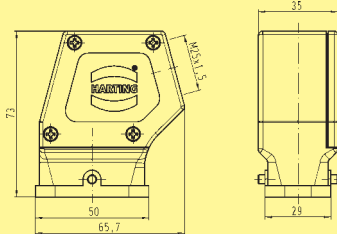
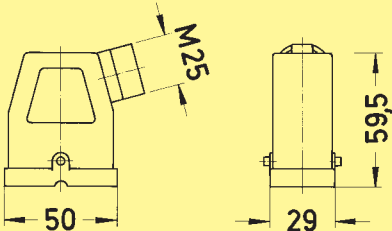
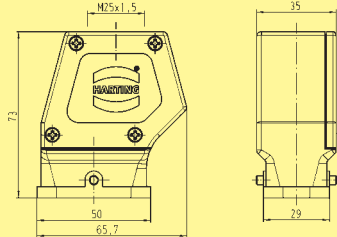
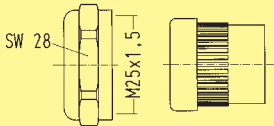
09 00 000 5059
19 12 000 5157
19 12 000 5158
09 00 000 5157
09 00 000 5158

Pg 16
M 25
M 25
Pg 21
Pg 21



	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

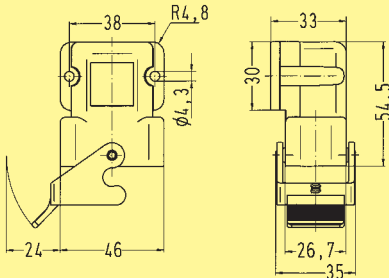
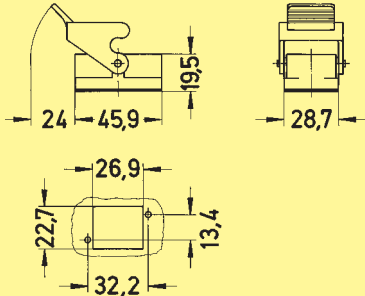
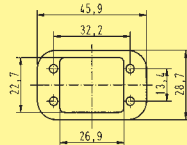
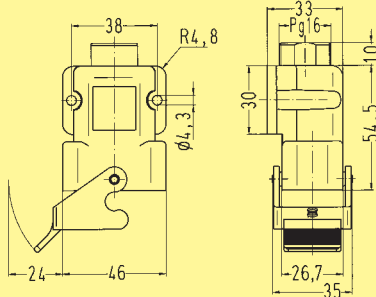
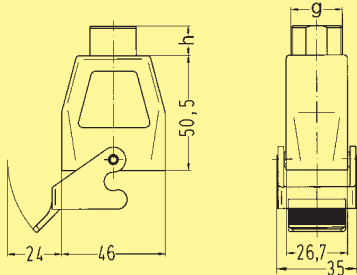
Identification	Part number	Drawing	Dimensions in mm												
Hoods Hoods Metal side-entry Cable gland order separately 	19 12 008 0526	M 25													
Hoods Metal side-entry Cable gland order separately 	black chromated 19 12 008 0501 black powder coated 19 12 708 0501 matt nickel plated 19 12 008 0502	M 25 M 25 M 25													
Hoods Metal top-entry Cable gland order separately 	19 12 008 0426	M 25													
Cable seal Metal for hoods Thrust bolt and insert 	19 12 000 5057 19 12 000 5058	M 25 M 25	 <table><tr><th></th><th colspan="2">cable</th></tr><tr><th></th><th>min.</th><th>max.</th></tr><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></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													

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		

Stock items in bold type

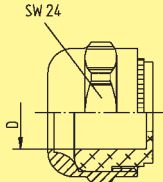
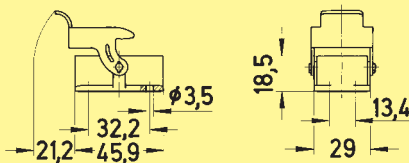
Han
Q

thermoplastic / metal

Identification	Part number	Drawing	Dimensions in mm						
Housings Housings, bulkhead mounting Thermoplastic angled 	09 12 008 0902	Pg 16							
Housings, bulkhead mounting Thermoplastic 	09 12 008 0327	Pg 16							
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"><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								

Stock items in bold type

thermoplastic / metal

Identification	Part number	Drawing	Dimensions in mm									
Housings Cable seal Thermoplastic for housings Thrust bolt and insert 	09 00 000 5058	Pg 16	 <table><tr><td></td><td colspan="2">cable</td></tr><tr><td></td><td>min.</td><td>max.</td></tr><tr><td>09 00 000 5058</td><td>11.5 mm</td><td>15.5 mm</td></tr></table>		cable			min.	max.	09 00 000 5058	11.5 mm	15.5 mm
	cable											
	min.	max.										
09 00 000 5058	11.5 mm	15.5 mm										
Housings, bulkhead mounting Metal 	black chromated 09 12 008 0301 black powder coated 09 12 708 0301 matt nickel plated 09 12 008 0303											

Han
Q



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