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Han
D / DD

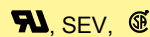
Features

- High density of crimping contacts, up to 128 contacts / connector
- Time saving rapid termination by use of crimping contacts
- For requirements up to 250 V / 10 A
- Gold and silver contacts available
- Suitable for thermo- and 1 mm F.O. contacts

Specifications

DIN EN 175 301-801
DIN EN 60 664-1
DIN EN 61 984

Approvals



Inserts

Number of contacts 7, 15, 25, 40, 50, 64, 80, 128,
50 (2x 25), 80 (2x 40),
128 (2x 64) + PE

Electrical data
acc. to EN 61 984

10 A 250 V 4 kV 3

Rated current

10 A

Rated voltage

250 V

Rated impulse voltage

4 kV

Pollution degree

3

Pollution degree 2 also

10 A 230/400 V 4 kV 2

Rated voltage

acc. to UL/CSA

600 V

Rated voltage

for wrap terminal acc. to CSA

2 A 30 V

Contact arrangement for higher voltage see page 02.21

Insulation resistance

$\geq 10^{10} \Omega$

Material

polyamide

Limiting temperatures

-40 °C ... +125 °C

Flammability acc. to UL 94

HB

Mechanical working life

- mating cycles

≥ 500

Contacts

Material

copper alloy

Surface - hard-gold plated

2 μm Au over 3 μm Ni

Surface - hard-silver plated

3 μm Ag

Contact resistance

$\leq 3 \text{ m}\Omega$

Crimp terminal - min

0.14 mm² / AWG 26

Crimp terminal - max

2.5 mm² / AWG 14

Wire wrap terminal

1 x 1 mm - length 22 mm
Diagonal 1.34 - 1.45 mm Contact
spacing 5.08 mm (40 + 64 poles)
Contact spacing 5.3 mm (15 +
25 poles)

Hoods/Housings

Material

aluminium die-cast

Surface

powder coated
RAL 7037 (grey)

Locking element

Han-Easy Lock®

Flammability acc. to UL 94

V 0

Hoods/Housings sealing

NBR

Limiting temperatures

-40 °C ... +125 °C

Degree of protection acc. to DIN EN 60 529

for coupled connector

IP 65

Variants for Han® 3 A housings

Material

polycarbonate
RAL 7032 (light grey)

Locking element

polyamide
RAL 7032 (light grey)

Accessories

Crimping tools

chapter 99

Cable clamps

chapter 40

Coding of hoods/housings

chapter 40

Label acc. to CSA-approval

chapter 40

Han-Snap®

chapter 11

Assembly plates for test connector

chapter 40

Guide pins and bushes are prescribed for the following
connectors: 15, 25, 40, 50, 64, 80 and 128 poles
(see chapter 40).

Han® 8 D Technical characteristics

Number of contacts

8

Electrical data

acc. to EN 61 984

Rated current

10 A

Rated voltage

~ 50 V / — 120 V

Rated voltage

acc. to UL/CSA

50 V

Hoods/Housings

Degree of protection acc. to DIN EN 60 529 for coupled
connector

for plastic hoods/housings

IP 65 / IP 67

for metal hoods/housings

IP 44

with seal screw

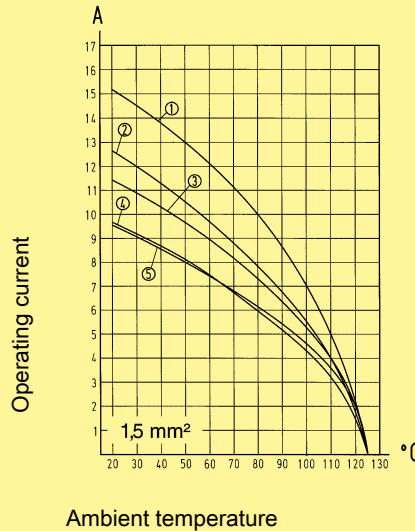
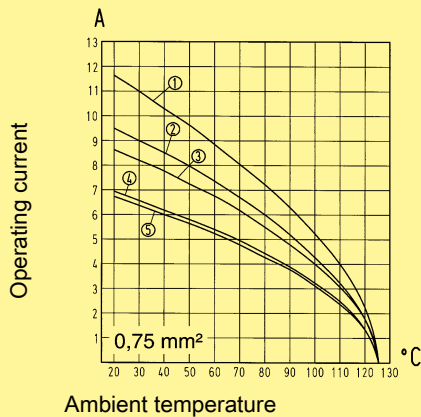
09 20 000 9918

IP 65 / IP 67

All other technical characteristics as for series Han® D.

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



- ① Han® 7 D
- ② Han® 15 D
- ③ Han® 25 D
- ④ Han® 40 D
- ⑤ Han® 64 D

Han
D / DD

Identification	Wire gauge (mm²)	Part number	Male contact	Female contact	Drawing	Dimensions in mm																				
Crimp contacts																										
silver plated	0.14-0.37	09 15 000 6104	09 15 000 6204		<table border="1"> <thead> <tr> <th>Wire gauge</th> <th>D</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>0.9 mm</td> </tr> <tr> <td>0.5 mm²</td> <td>AWG 20</td> <td>1.1 mm</td> </tr> <tr> <td>0.75 mm²</td> <td>AWG 18</td> <td>1.3 mm</td> </tr> <tr> <td>1 mm²</td> <td>AWG 18</td> <td>1.45 mm</td> </tr> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>1.75 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>2.25 mm</td> </tr> </tbody> </table>	Wire gauge	D	Stripping length	0.14-0.37 mm²	AWG 26-22	0.9 mm	0.5 mm²	AWG 20	1.1 mm	0.75 mm²	AWG 18	1.3 mm	1 mm²	AWG 18	1.45 mm	1.5 mm²	AWG 16	1.75 mm	2.5 mm²	AWG 14	2.25 mm
Wire gauge	D	Stripping length																								
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gold plated	0.14-0.37	09 15 000 6124	09 15 000 6224		<table border="1"> <thead> <tr> <th>Part number</th> <th>Series</th> </tr> </thead> <tbody> <tr> <td>20 10 001 3212</td> <td>Han® 7 D, Han® 8 D, Han® 40 D, Han® 64 D, Han® 80 D, Han® 128 D</td> </tr> <tr> <td>20 10 001 3213</td> <td>Han® 15 D, Han® 25 D, Han® 50 D</td> </tr> <tr> <td>20 10 001 3222</td> <td>Han® 7 D, Han® 8 D, Han® 15 D, Han® 25 D, Han® 50 D, Han® 40 D, Han® 64 D, Han® 80 D, Han® 128 D</td> </tr> </tbody> </table>	Part number	Series	20 10 001 3212	Han® 7 D, Han® 8 D, Han® 40 D, Han® 64 D, Han® 80 D, Han® 128 D	20 10 001 3213	Han® 15 D, Han® 25 D, Han® 50 D	20 10 001 3222	Han® 7 D, Han® 8 D, Han® 15 D, Han® 25 D, Han® 50 D, Han® 40 D, Han® 64 D, Han® 80 D, Han® 128 D													
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	2.5	09 15 000 6126	09 15 000 6226																							
F.O. contacts																										
for 1 mm plastic fibre			20 10 001 3212	20 10 001 3222																						
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Stock items in bold type



Features

- High density of crimping contacts, up to 216 contacts/connector
- Time saving rapid termination by use of crimping contacts
- For requirements up to 250 V / 10 A
- Gold and silver contacts available
- Suitable for thermo- and 1 mm F.O. contacts

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals

 SEV, 

Inserts

Number of contacts 24, 42, 72, 108, 144, 216, 144
(2x 72), 216 (2x 108) + PE

Electrical data acc. to EN 61 984 **10 A 250 V 4 kV 3**

Rated current 10 A

Rated voltage 250 V

Rated impulse voltage 4 kV

Pollution degree 3

Pollution degree 2 also 10 A 230/400 V 4 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-gold plated 2 μm Au over 3 μm Ni

Surface - hard-silver plated 3 μm Ag

Contact resistance $\leq 3 \text{ m}\Omega$

Crimp terminal - min 0.14 mm² / AWG 26

Crimp terminal - max 2.5 mm² / AWG 14

Hoods/Housings

Material aluminium die-cast

Surface powder coated
RAL 7037 (grey)

Locking element Han-Easy Lock[®]

Flammability acc. to UL 94 V 0

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

Cable clamps chapter 40

Coding of hoods/housings chapter 40

Label acc. to CSA-approval chapter 40

Han-Snap[®] chapter 11

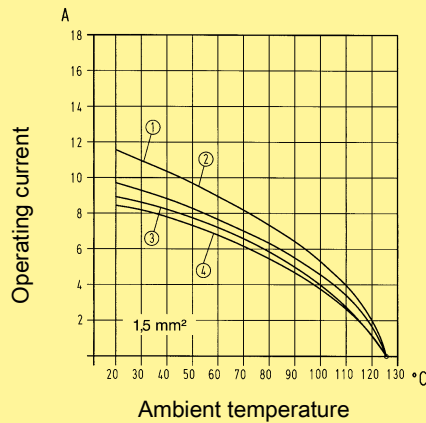
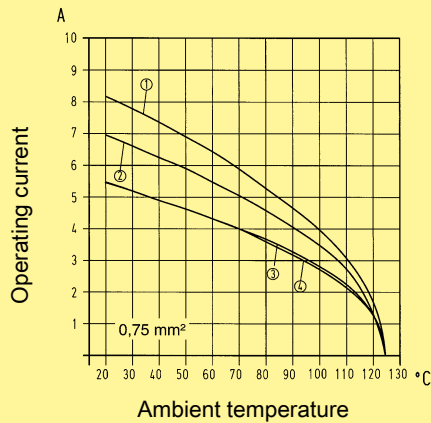
Assembly plates for test connector chapter 40

Guide pins and bushes are prescribed for the following connectors: 15, 25, 40, 50, 64, 80 and 128 poles (see 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



- ① Han® 24 DD
- ② Han® 42 DD
- ③ Han® 72 DD
- ④ Han® 108 DD

Identification	Wire gauge (mm²)	Part number		Drawing	Dimensions in mm																					
		Male contact	Female contact																							
Crimp contacts																										
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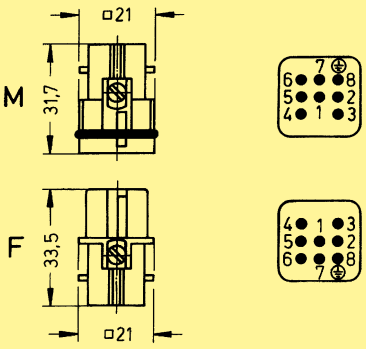


Number of contacts

7 +



Han
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.03)</p>  <p>Attention Only for thermoplastic hoods/housings</p>	Han D®	09 21 007 3031	09 21 007 3131	<p>Contact arrangement view from termination side</p> 	
<p>Coding pin</p> 				09 33 000 9915	<p>Coding pin</p>  <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.</p>


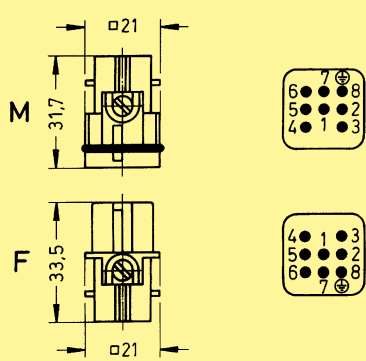

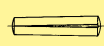
Number of contacts

8



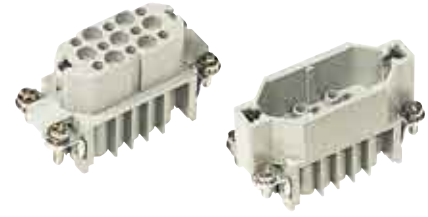
Inserts

Han
D / DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.03)</p>  <p>For thermoplastics and metal hoods/housings</p>	Han D®	09 36 008 3001	09 36 008 3101	<p>Contact arrangement view from termination side</p> 	
<p>Coding pin</p> 				09 33 000 9915	<p>Coding pin</p>  <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.</p>


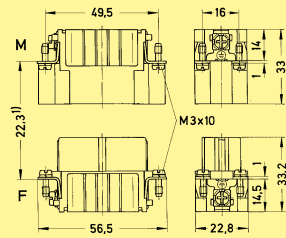
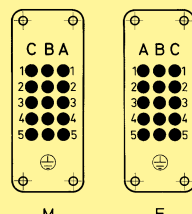
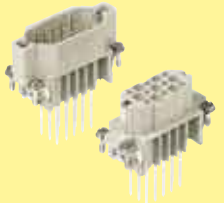
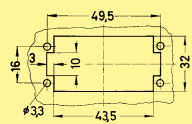


Number of contacts

15 +



Han
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.03)</p> 	Han D®	09 21 015 3001	09 21 015 3101	 <p>1) Distance for contact max. 24 mm</p> <p>Contact arrangement view from termination side</p> 	
<p>Wrap terminal</p> <p>1 x 1 mm</p> 		09 21 015 2601	09 21 015 2701	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p>Coding pin</p> 				09 33 000 9915	<p>Coding pin</p>  <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.</p>


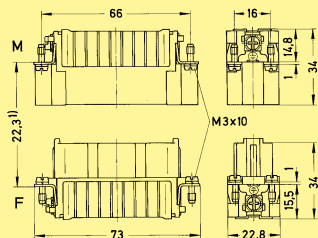
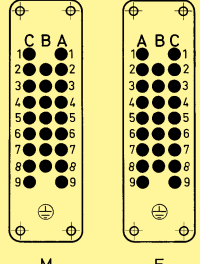

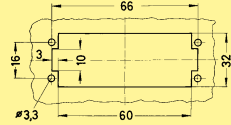

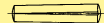
Number of contacts

25 +



Inserts

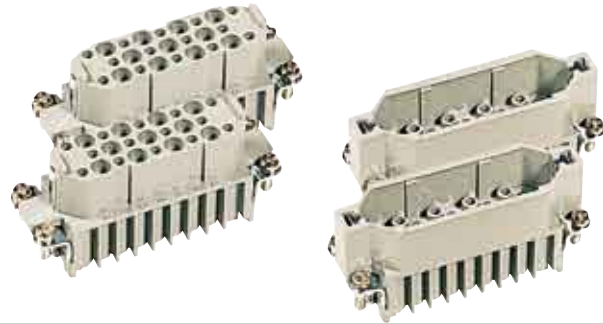
Han
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.03)</p> 	Han D®	09 21 025 3001	09 21 025 3101	 <p>1) Distance for contact max. 24 mm</p> <p>Contact arrangement view from termination side</p> 	
<p>Wrap terminal</p> <p>1 x 1 mm</p> 		09 21 025 2601	09 21 025 2701	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p>Coding pin</p> 				09 33 000 9915	<p>Coding pin</p>  <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.</p>

Stock items in bold type


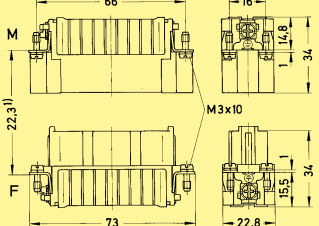
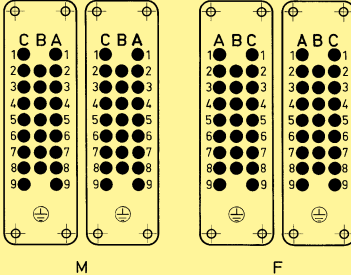
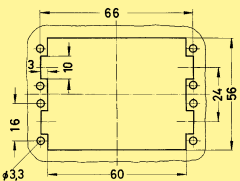
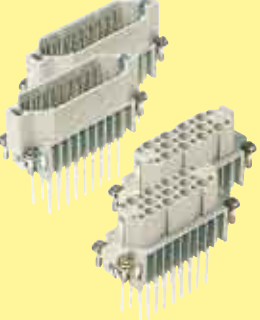
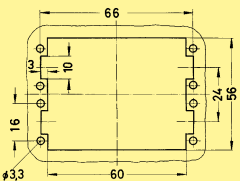


Number of contacts

50 +



Han
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.03)</p> 	<p>Han D®</p> <p>1 - 25</p> <p>1 - 25</p>	<p>09 21 025 3001</p> <p>09 21 025 3001</p>	<p>09 21 025 3101</p> <p>09 21 025 3101</p>	 <p>1) Distance for contact max. 24 mm</p> <p>Contact arrangement view from termination side</p>  <p>Panel cut out for inserts for use without hoods/housings</p> 	
<p>Wrap terminal</p> <p>1 x 1 mm</p> 	<p>1 - 25</p> <p>1 - 25</p>	<p>09 21 025 2601</p> <p>09 21 025 2601</p>	<p>09 21 025 2701</p> <p>09 21 025 2701</p>	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p>Coding pin</p> 			<p>09 33 000 9915</p>	<p>Coding pin</p>  <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.</p>	

Number of contacts

24 +



Inserts

Han
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.05)</p>	Han DD®	09 16 024 3001	09 16 024 3101	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p> <p>Panel cut out for inserts for use without hoods/housings</p>	
<p>Coding pin</p>				09 33 000 9915	<p>Coding pin</p> <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.</p>

Number of contacts

42 +



Han
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.05)</p>	Han DD®	09 16 042 3001	09 16 042 3101	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p> <p>Panel cut out for inserts for use without hoods/housings</p>	
<p>Coding pin</p>				09 33 000 9915	<p>Coding pin</p> <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.</p>


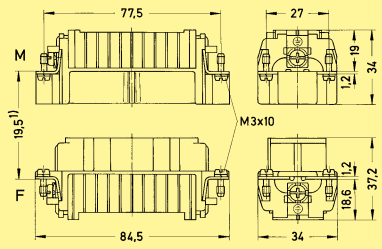
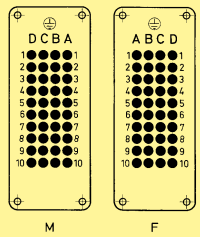

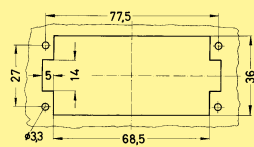


Number of contacts

40 +



Inserts

Han
D / DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.03)</p> 	Han D®	09 21 040 3001	09 21 040 3101	 <p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p> 	
<p>Wrap terminal</p> <p>1 x 1 mm</p> 		09 21 040 2601	09 21 040 2701	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p>Coding pin</p> 				09 33 000 9915	<p>Coding pin</p>  <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.</p>

Number of contacts

64 +



Inserts

Han
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.03)</p>	Han D®	09 21 064 3001	09 21 064 3101	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p>	
<p>Wrap terminal</p> <p>1 x 1 mm</p>		<p>09 21 064 2601</p>	<p>09 21 064 2701</p>	<p>Panel cut out for inserts for use without hoods/housings</p>	
<p>Coding pin</p>				<p>09 33 000 9915</p> <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.</p>	

Number of contacts

108 +



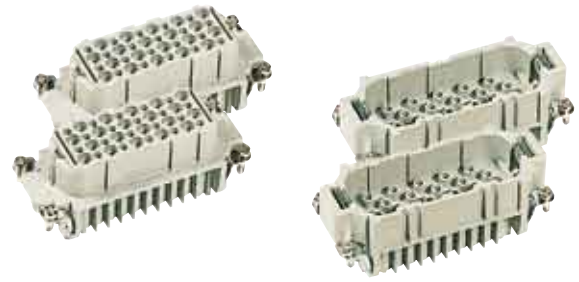
Han
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.05)</p>	Han DD®	09 16 108 3001	09 16 108 3101	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p> <p>Panel cut out for inserts for use without hoods/housings</p>	
<p>Coding pin</p>		09 33 000 9915	<p>Coding pin</p> <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.</p>		


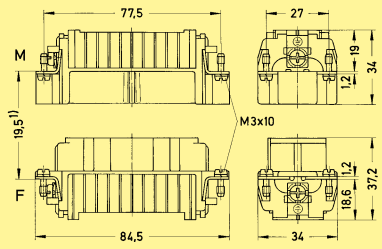
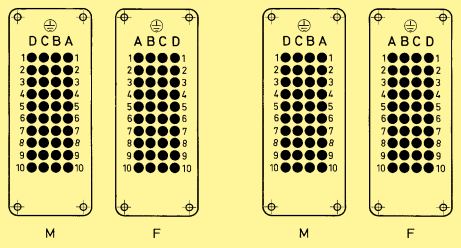
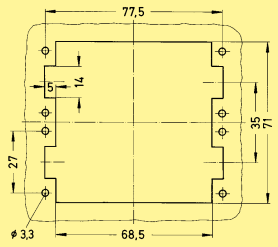

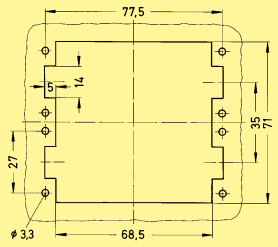

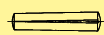
Number of contacts

80 +



Inserts

Han
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.03)</p> 	<p>Han D®</p> <p>1 - 40</p> <p>1 - 40</p>	<p>09 21 040 3001</p> <p>09 21 040 3001</p>	<p>09 21 040 3101</p> <p>09 21 040 3101</p>	 <p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p>  <p>Panel cut out for inserts for use without hoods/housings</p> 	
<p>Wrap terminal</p> <p>1 x 1 mm</p> 	<p>1 - 40</p> <p>1 - 40</p>	<p>09 21 040 2601</p> <p>09 21 040 2601</p>	<p>09 21 040 2701</p> <p>09 21 040 2701</p>	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p>Coding pin</p> 			<p>09 33 000 9915</p>	<p>Coding pin</p>  <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.</p>	


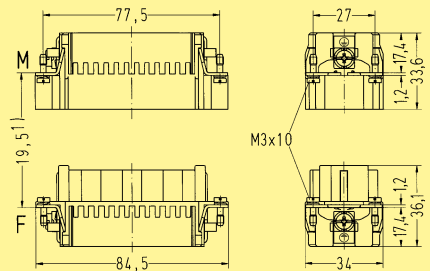
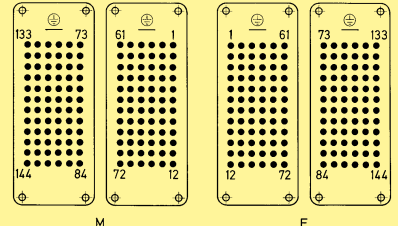
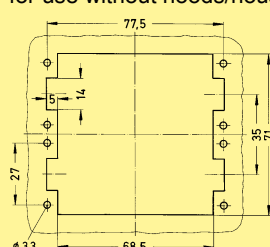

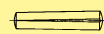
Number of contacts

144 +



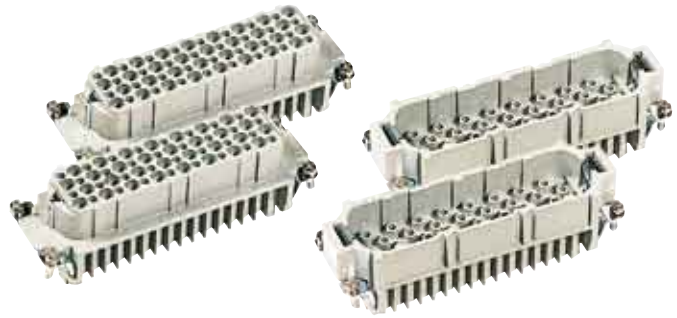
Han
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.05)</p> 	<p>Han DD®</p> <p>1 - 72 73 - 144</p>	<p>09 16 072 3001 09 16 072 3011</p>	<p>09 16 072 3101 09 16 072 3111</p>	 <p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p>  <p>Panel cut out for inserts for use without hoods/housings</p> 	
<p>Coding pin</p> 			<p>09 33 000 9915</p>	<p>Coding pin</p>  <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.</p>	


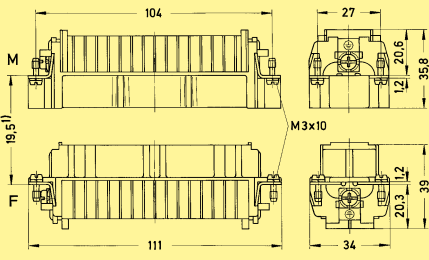
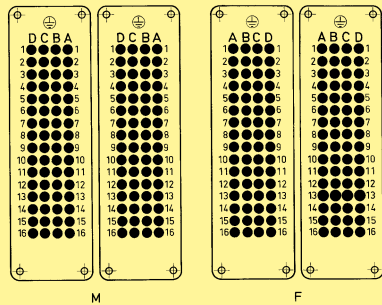

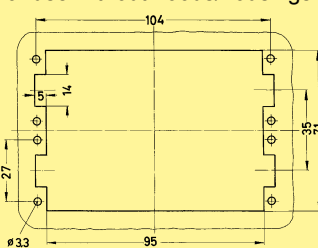


Number of contacts

128 +



Inserts

Han
D / DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.03)</p> 	<p>Han D®</p> <p>1 - 64</p> <p>1 - 64</p>	<p>09 21 064 3001</p> <p>09 21 064 3001</p>	<p>09 21 064 3101</p> <p>09 21 064 3101</p>	 <p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p> 	
<p>Wrap terminal</p> <p>1 x 1 mm</p> 	<p>1 - 64</p> <p>1 - 64</p>	<p>09 21 064 2601</p> <p>09 21 064 2601</p>	<p>09 21 064 2701</p> <p>09 21 064 2701</p>		
<p>Coding pin</p> 			<p>09 33 000 9915</p>	<p>Coding pin</p>  <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.</p>	

Number of contacts

216 +



Han
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.05)</p>	<p>Han DD®</p> <p>1 - 108 109 - 216</p>	<p>09 16 108 3001 09 16 108 3011</p>	<p>09 16 108 3101 09 16 108 3111</p>	<p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p> <p>Panel cut out for inserts for use without hoods/housings</p>	
<p>Coding pin</p>			<p>09 33 000 9915</p> <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.</p>		

Modified contact arrangement

The connector series Han DD[®] and Han D[®] equipped with all contacts may be used for voltages up to 250 V, pollution degree 3. A modified contact loading arrangement permits use up to 500 V also in the same pollution degree.

According to DIN EN 61 984 connectors should not be coupled or decoupled under electrical load.

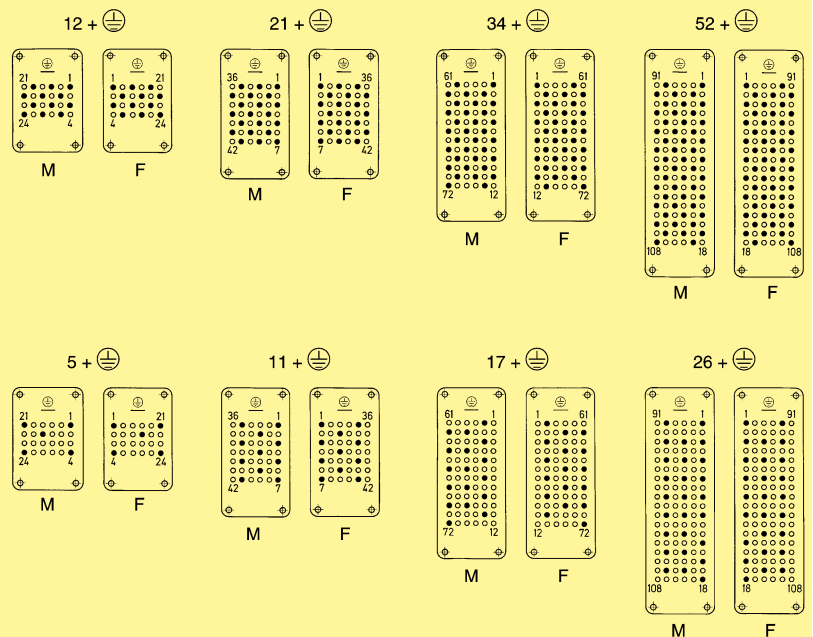
Han
D / DD

Series Han DD[®]

Rated current **10 A 400 V 6 kV 3**
 Rated voltage 10 A
 Rated voltage 400 V
 Rated impulse voltage 6 kV
 Pollution degree 3

Rated current **10 A 500 V 6 kV 3**
 Rated current 10 A
 Rated voltage 500 V
 Rated impulse voltage 6 kV
 Pollution degree 3

Contact arrangement view from termination side

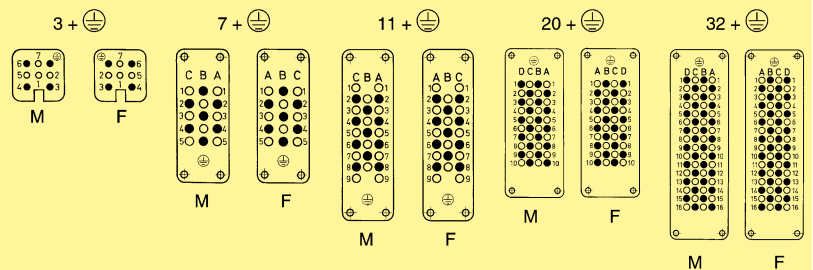


● Working contact ○ Without contact M - Male insert F - Female insert

Series Han D[®]

Rated current **10 A 500 V 6 kV 3**
 Rated current 10 A
 Rated voltage 500 V
 Rated impulse voltage 6 kV
 Pollution degree 3

Contact arrangement view from termination side



● Working contact ○ Without contact M - Male insert F - Female insert



Han
D/DD

Han® PCB Adapter

Identification

Part number

Drawing

Dimensions in mm

PCB Adapter

(contacts included)
can be used in combination with all Han
DD® inserts

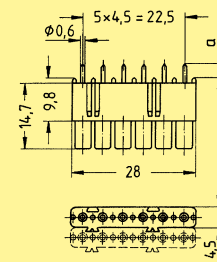
for PCB:
up to 1.6 mm

up to 2.4 mm

09 16 000 9905

09 16 000 9908

Part number	a
09 16 000 9905	1.6
09 16 000 9908	2.4



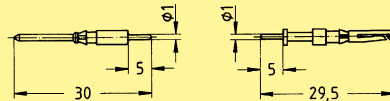
Han DD®

Male contact

Female contact

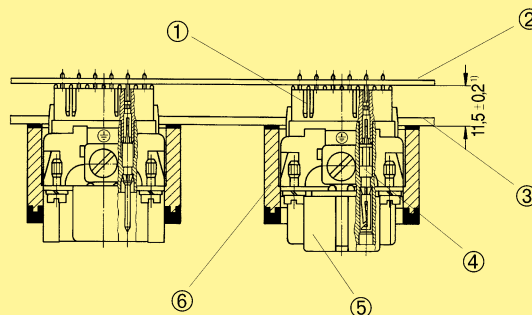
09 15 000 6191

09 15 000 6291



Application

The PCB adapter is used to terminate control and data lines via pcb to the above mentioned connector inserts.



- ① PCB adapter
- ② Printed circuit board (PCB)
- ③ Switch board panel
- ④ Han DD® double contact
- ⑤ Han DD® insert
- ⑥ Han® B bulkhead mounted housing

1) for Han® B EMC housings spacing of 12.5 ± 0.2 mm is necessary as no flange seal is used