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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

– for wrap terminal only

10 A 250 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 02.22

Insulation resistance

$\geq 10^{10} \Omega$

Material

– Han<sup>®</sup> 40 D/Han<sup>®</sup> 64 D

polyamide  
polycarbonate

Limiting temperatures

-40 °C ... +125 °C

Flammability acc. to UL 94

HB

– Han<sup>®</sup> 40 D/Han<sup>®</sup> 64 D

V 0

Mechanical working life

– mating cycles

$\geq 500$

## Contacts

Material	copper alloy
Surface - hard-gold plated	2 $\mu\text{m}$ Au over 3 $\mu\text{m}$ Ni
Surface - hard-silver plated	3 $\mu\text{m}$ Ag
Contact resistance	$\leq 3 \text{ m}\Omega$
Crimp terminal - min	0.14 mm <sup>2</sup> / AWG 26
Crimp terminal - max	2.5 mm <sup>2</sup> / 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)
Han-Quick Lock <sup>®</sup> - min	0.25 mm <sup>2</sup> / AWG 24
Han-Quick Lock <sup>®</sup> - max	1.5 mm <sup>2</sup> / AWG 16

## Hoods/Housings

Material	aluminium die-cast
Surface	powder coated RAL 7037 (grey)
Locking element	Han-Easy Lock <sup>®</sup>
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Variants for Han<sup>®</sup> 3 A housings (see page 02.03)

Material	polycarbonate RAL 7032 (light grey)
Locking element	Polyamide RAL 7032 (light grey)

## Accessories

Crimping tools	chapter 99
Cable clamps	chapter 95
Coding of hoods/housings	chapter 95
Label acc. to CSA-approval	chapter 95
Han-Snap <sup>®</sup>	chapter 11
Assembly plates for test connector	chapter 95

## ATTENTION!

Guide pins and bushes are prescribed for the following connectors: 15, 25, 40, 50, 64, 80 and 128 poles (see chapter 95).

## Features

- High density of crimping contacts, up to 8 contacts / connector
- Time saving rapid termination by use of crimping contacts
- For requirements up to ~ 50 V / — 120 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  
DIN EN 175 301-801

## Approvals



## Inserts

Number of contacts	8
Electrical data acc. to EN 61 984	<b>10 A ~50 V / – 120 V 0.8 kV 3</b>
Rated current	10 A
Rated voltage	~ 50 V
Rated voltage DC	– 120 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Rated voltage acc. to UL/CSA	50 V
Rated voltage (direct voltage)	120 V
Insulation resistance	≥ 10 <sup>10</sup> Ω
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	≤ 3 mΩ
Crimp terminal - min	0.14 mm <sup>2</sup> / AWG 26
Crimp terminal - max	2.5 mm <sup>2</sup> / AWG 14
Han-Quick Lock® - min	0.25 mm <sup>2</sup> / AWG 24
Han-Quick Lock® - max	1.5 mm <sup>2</sup> / AWG 16

## Hoods/Housings Han® 3 A

Thermoplastic	
Material	polycarbonate
Surface	RAL 7032 (light grey) RAL 9005 (black)
Locking element	lever, plastic
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	–40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65 / IP 67
Metal	
Material	zinc die-cast
Surface	powder coated RAL 7037 (grey)
Locking element	lever, metal
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	–40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 44 IP 67 is achieved with seal screw 09 20 000 9918

## Accessories

Crimping tools	chapter 99
Cable clamps	chapter 95
Coding of hoods/housings	chapter 95
Label acc. to CSA-approval	chapter 95
Han-Snap®	chapter 11
Assembly plates for test connector	chapter 95



## 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



## 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

$\geq 500$

## Contacts

Material

copper alloy

Surface - hard-gold plated

2  $\mu\text{m}$  Au over 3  $\mu\text{m}$  Ni

Surface - hard-silver plated

3  $\mu\text{m}$  Ag

Contact resistance

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

Crimp terminal - min

0.14 mm<sup>2</sup> / AWG 26

Crimp terminal - max

2.5 mm<sup>2</sup> / 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 seal

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 95

Coding of hoods/housings

chapter 95

Label acc. to CSA-approval

chapter 95

Han-Snap®

chapter 11

Assembly plates for test connector

chapter 95

## ATTENTION!

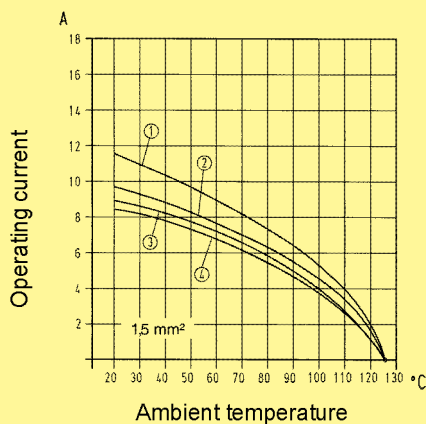
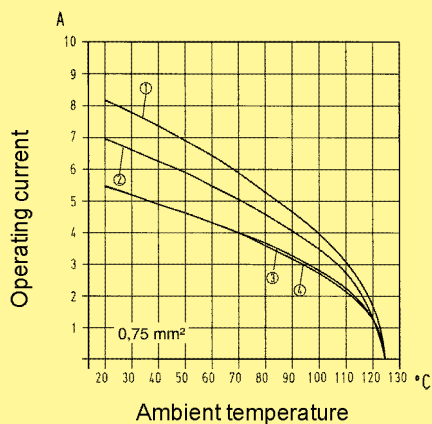
Guide pins and bushes are prescribed for the following connectors: 15, 25, 40, 50, 64, 80 and 128 poles (see chapter 95).

**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 60 512-5-2

Han  
D/DD



- 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		

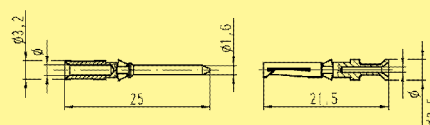
**Crimp contacts**

silver plated

0.14-0.37	<b>09 15 000 6104</b>	<b>09 15 000 6204</b>
0.5	<b>09 15 000 6103</b>	<b>09 15 000 6203</b>
0.75	<b>09 15 000 6105</b>	<b>09 15 000 6205</b>
1	<b>09 15 000 6102</b>	<b>09 15 000 6202</b>
1.5	<b>09 15 000 6101</b>	<b>09 15 000 6201</b>
2.5	<b>09 15 000 6106</b>	<b>09 15 000 6206</b>

gold plated

0.14-0.37	<b>09 15 000 6124</b>	<b>09 15 000 6224</b>
0.5	<b>09 15 000 6123</b>	<b>09 15 000 6223</b>
0.75	<b>09 15 000 6125</b>	<b>09 15 000 6225</b>
1	<b>09 15 000 6122</b>	<b>09 15 000 6222</b>
1.5	<b>09 15 000 6121</b>	<b>09 15 000 6221</b>
2.5	<b>09 15 000 6126</b>	<b>09 15 000 6226</b>

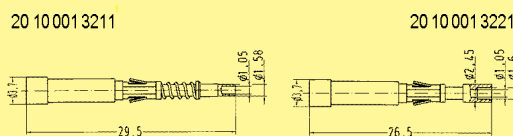


Wire gauge	D	Stripping length
0.14-0.37 mm²	AWG 26-22	0.9 mm
0.5 mm²	AWG 20	1.1 mm
0.75 mm²	AWG 18	1.3 mm
1 mm²	AWG 18	1.45 mm
1.5 mm²	AWG 16	1.75 mm
2.5 mm²	AWG 14	2.25 mm

**F.O. contacts**

for 1 mm plastic fibre

<b>20 10 001 3211</b>	<b>20 10 001 3221</b>
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Part number	Series
<b>20 10 001 3211</b>	Han® 24 DD, Han® 42 DD, Han® 72 DD, Han® 144 DD, Han® 108 DD, Han® 216 DD
<b>20 10 001 3221</b>	Han® 24 DD, Han® 42 DD, Han® 72 DD, Han® 144 DD, Han® 108 DD, Han® 216 DD


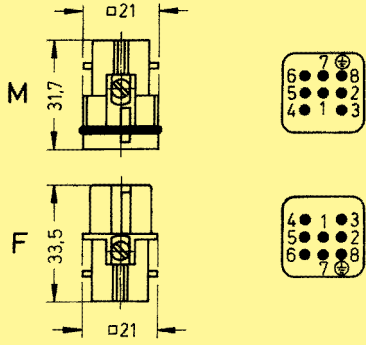

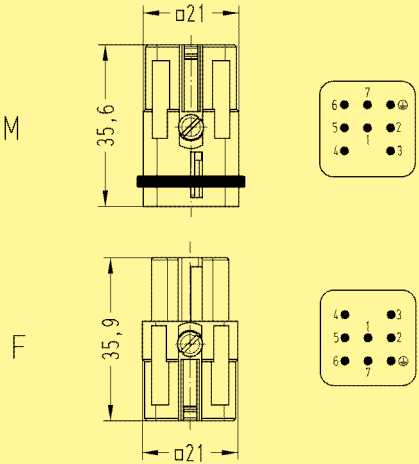

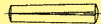
Number of contacts

7 +



Inserts

Han  
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</p>  <p>Attention Only for thermoplastic hoods/housings</p>	Han D®	<b>09 21 007 3031</b>	<b>09 21 007 3131</b>	<p>Contact arrangement view from termination side</p> 	
<p><b>Han® 7 D Quick Lock</b></p>  <p>Attention Only for thermoplastic hoods/housings</p>	Han D®	<b>09 21 007 2632</b>	<b>09 21 007 2732</b>	<p>Contact arrangement view from termination side</p> 	
<p><b>Coding pin</b></p> 			<b>09 33 000 9915</b>	<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>	


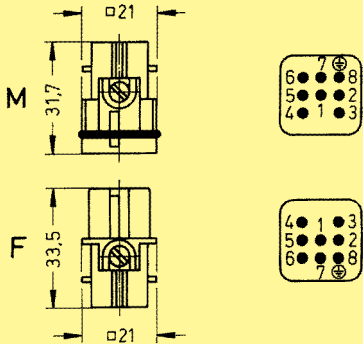

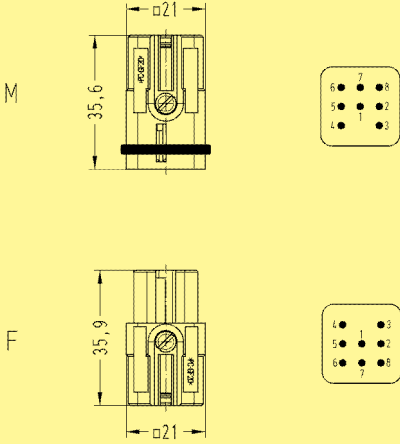

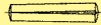
Number of contacts

8



Han  
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</p>  <p>For thermoplastics and metal hoods/housings</p>	Han D®	<b>09 36 008 3001</b>	<b>09 36 008 3101</b>	<p>Contact arrangement view from termination side</p> 	
<p><b>Han® 8 D Quick Lock</b></p>  <p>For thermoplastics and metal hoods/housings</p>	Han D®	<b>09 36 008 2632</b>	<b>09 36 008 2732</b>	<p>Contact arrangement view from termination side</p> 	
<p><b>Coding pin</b></p> 			<b>09 33 000 9915</b>	<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>	




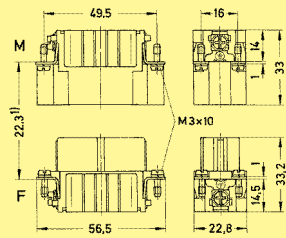
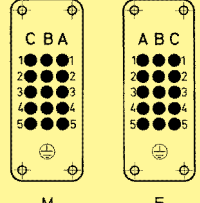
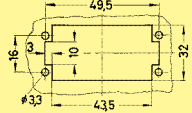
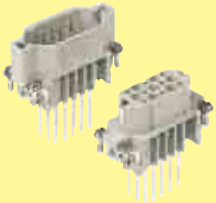
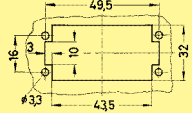

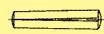
Number of contacts

15 +



Inserts

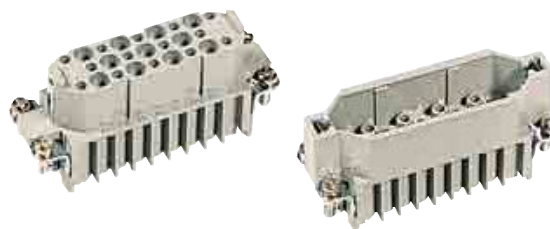
Han  
D / DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</p> 	Han D®	<b>09 21 015 3001</b>	<b>09 21 015 3101</b>	 <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><b>Wrap terminal</b></p> <p>1 x 1 mm</p> 		<b>09 21 015 2601</b>	<b>09 21 015 2701</b>	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p><b>Coding pin</b></p> 		<b>09 33 000 9915</b>		<p><b>Coding pin</b></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


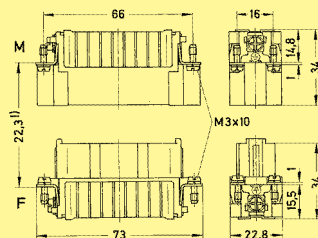
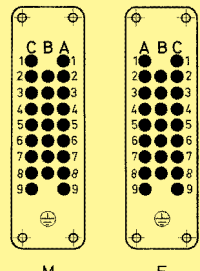

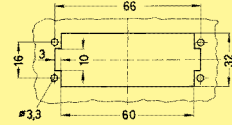


Number of contacts

25 +



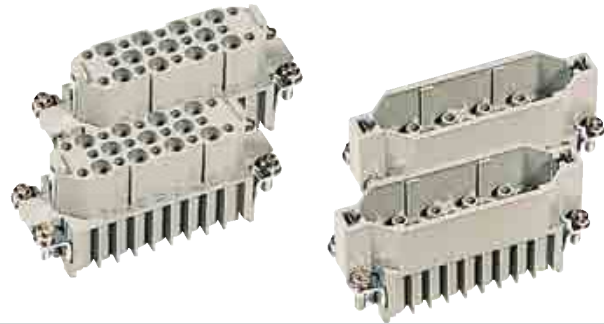
Han  
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</p> 	Han D®	<b>09 21 025 3001</b>	<b>09 21 025 3101</b>	 <p>1) Distance for contact max. 24 mm</p> <p>Contact arrangement view from termination side</p> 	
<p><b>Wrap terminal</b></p> <p>1 x 1 mm</p> 		<b>09 21 025 2601</b>	<b>09 21 025 2701</b>	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p><b>Coding pin</b></p> 				<b>09 33 000 9915</b>	<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>


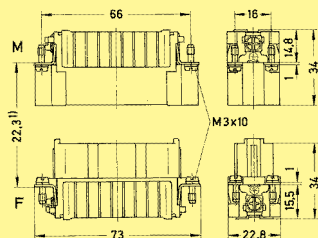
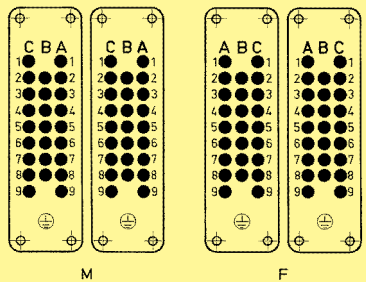

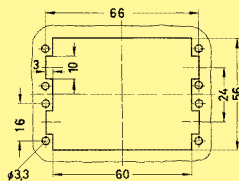

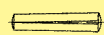
Number of contacts

50 +



Inserts

Han  
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</p> 	<p>Han D®</p> <p>1 - 25</p> <p>1 - 25</p>	<p><b>09 21 025 3001</b></p> <p><b>09 21 025 3001</b></p>	<p><b>09 21 025 3101</b></p> <p><b>09 21 025 3101</b></p>	 <p>1) Distance for contact max. 24 mm</p> <p>Contact arrangement view from termination side</p> 	
<p><b>Wrap terminal</b></p> <p>1 x 1 mm</p> 	<p>1 - 25</p> <p>1 - 25</p>	<p><b>09 21 025 2601</b></p> <p><b>09 21 025 2601</b></p>	<p><b>09 21 025 2701</b></p> <p><b>09 21 025 2701</b></p>	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p><b>Coding pin</b></p> 			<p><b>09 33 000 9915</b></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>	

Stock items in bold type

Number of contacts

24 +



Han  
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.06)</p>	Han DD®	<b>09 16 024 3001</b>	<b>09 16 024 3101</b>	<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><b>Coding pin</b></p>				<b>09 33 000 9915</b>	<p><b>Coding pin</b></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>


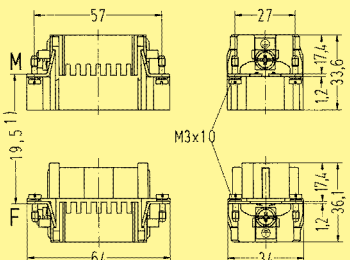
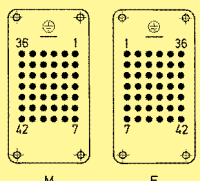
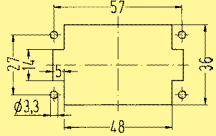


Number of contacts

42 +



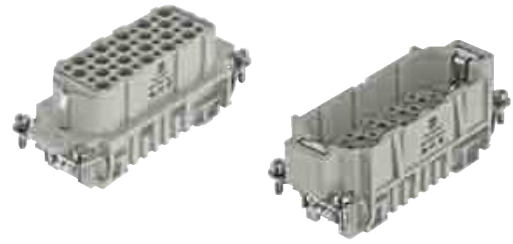
Inserts

Han  
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.06)</p> 	Han DD®	<b>09 16 042 3001</b>	<b>09 16 042 3101</b>	 <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><b>Coding pin</b></p> 				<b>09 33 000 9915</b>	<p><b>Coding pin</b></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>


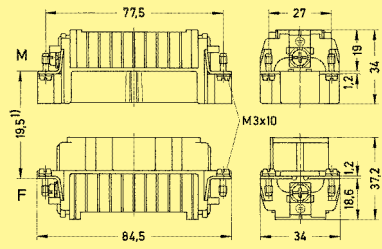
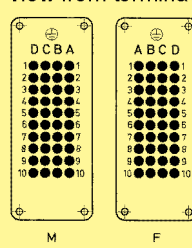
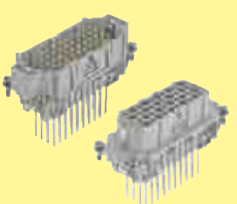
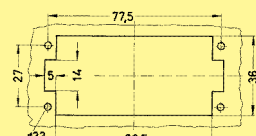


Number of contacts

40 +



Han  
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</p> 	Han D®	<b>09 21 040 3001</b>	<b>09 21 040 3101</b>	 <p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p> 	
<p><b>Wrap terminal</b></p> <p>1 x 1 mm</p> 		<b>09 21 040 2601</b>	<b>09 21 040 2701</b>	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p><b>Coding pin</b></p> 				<b>09 33 000 9915</b>	<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>


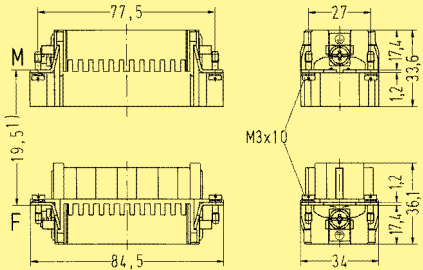
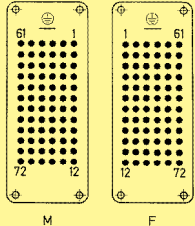
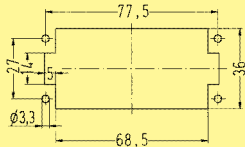


Number of contacts

**72** +



Inserts

Han  
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.06)</p> 	Han DD®	<b>09 16 072 3001</b>	<b>09 16 072 3101</b>	 <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><b>Coding pin</b></p> 				<b>09 33 000 9915</b>	<p><b>Coding pin</b></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


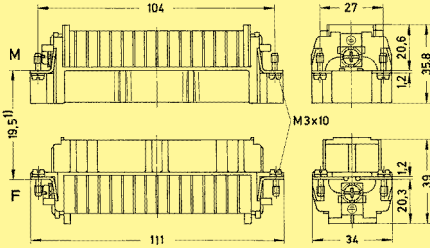
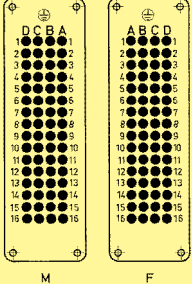
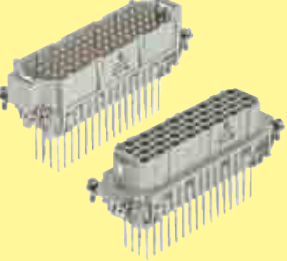
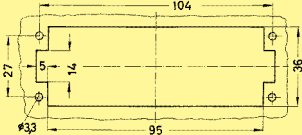


Number of contacts

64 +



Han  
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</p> 	Han D®	<b>09 21 064 3001</b>	<b>09 21 064 3101</b>	 <p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p> 	
<p><b>Wrap terminal</b></p> <p>1 x 1 mm</p> 		<b>09 21 064 2601</b>	<b>09 21 064 2701</b>	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p><b>Coding pin</b></p> 				<b>09 33 000 9915</b>	<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>




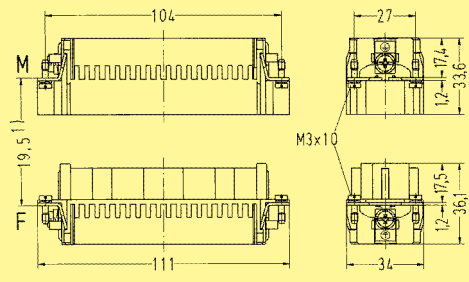
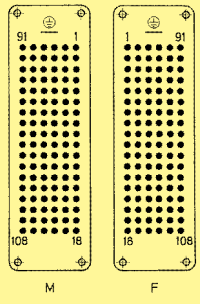
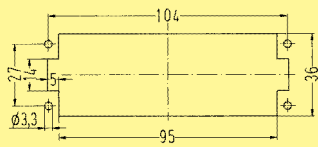

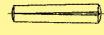
Number of contacts

108 +



Inserts

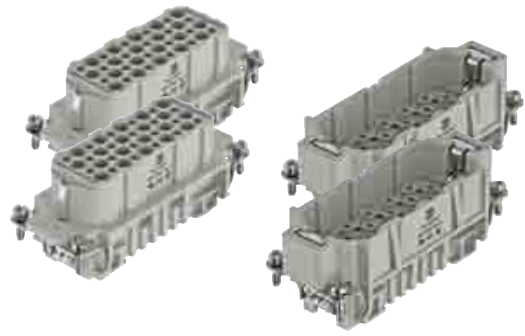
Han  
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.06)</p> 	Han DD®	<b>09 16 108 3001</b>	<b>09 16 108 3101</b>	 <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><b>Coding pin</b></p> 				<b>09 33 000 9915</b>	<p><b>Coding pin</b></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


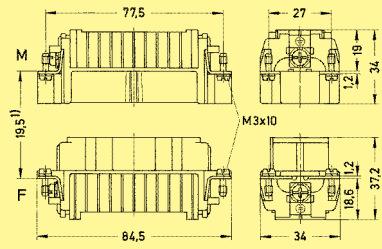
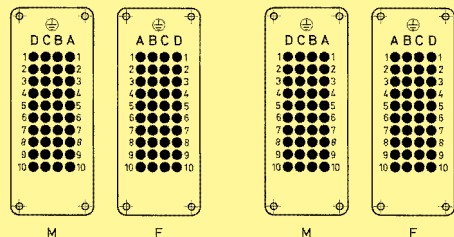
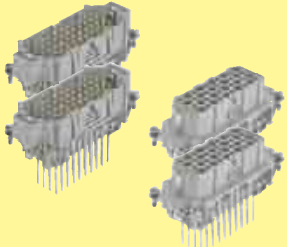
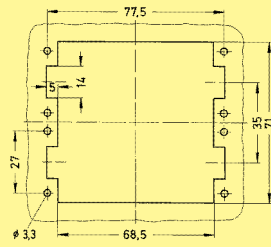

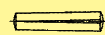
Number of contacts

80 +



Han  
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</p> 	<p>Han D®</p> <p>1 - 40</p> <p>1 - 40</p>	<p><b>09 21 040 3001</b></p> <p><b>09 21 040 3001</b></p>	<p><b>09 21 040 3101</b></p> <p><b>09 21 040 3101</b></p>	 <p>1) Distance for contact max. 21 mm</p> <p>Contact arrangement view from termination side</p> 	
<p><b>Wrap terminal</b></p> <p>1 x 1 mm</p> 	<p>1 - 40</p> <p>1 - 40</p>	<p><b>09 21 040 2601</b></p> <p><b>09 21 040 2601</b></p>	<p><b>09 21 040 2701</b></p> <p><b>09 21 040 2701</b></p>	<p>Panel cut out for inserts for use without hoods/housings</p> 	
<p><b>Coding pin</b></p> 			<p><b>09 33 000 9915</b></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>	


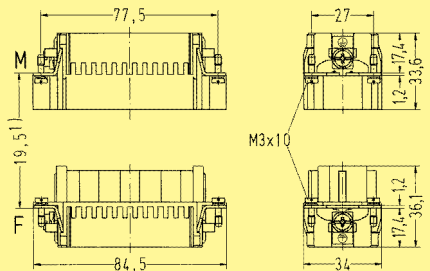
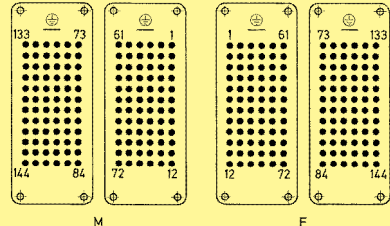
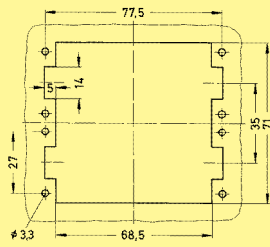

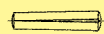
Number of contacts

144 +



Inserts

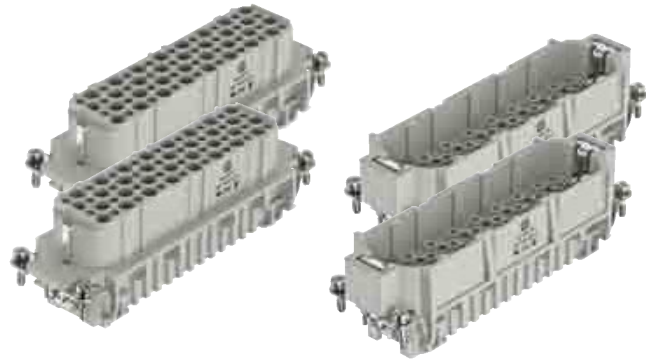
Han  
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.06)</p> 	<p>Han DD®</p> <p>1 - 72 73 - 144</p>	<p><b>09 16 072 3001</b> 09 16 072 3011</p>	<p><b>09 16 072 3101</b> 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><b>Coding pin</b></p> 			<p><b>09 33 000 9915</b></p>	<p><b>Coding pin</b></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


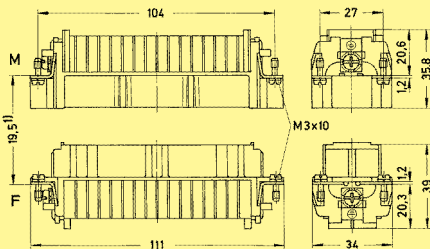
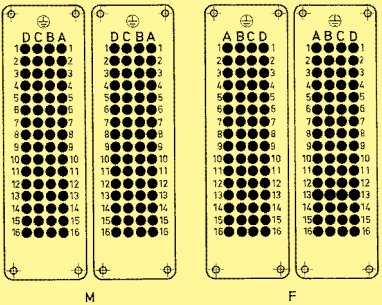

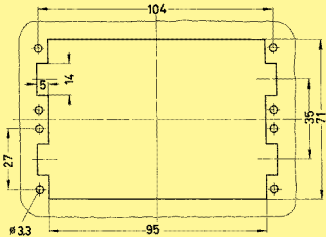


Number of contacts

128 +



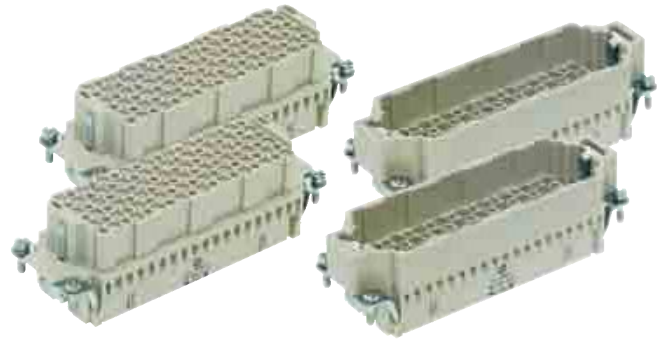
Han  
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</p> 	<p>Han D®</p> <p>1 - 64</p> <p>1 - 64</p>	<p><b>09 21 064 3001</b></p> <p>09 21 064 3001</p>	<p><b>09 21 064 3101</b></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><b>Wrap terminal</b></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><b>Coding pin</b></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>	


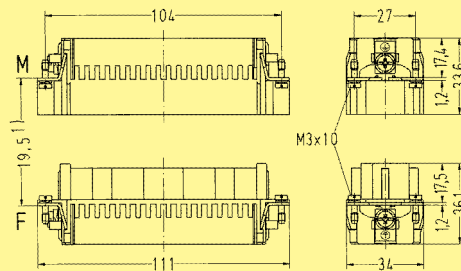
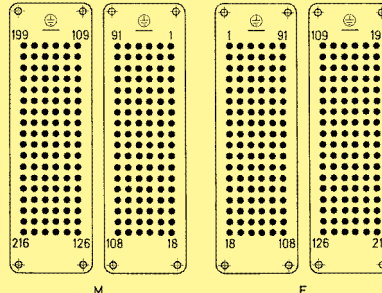
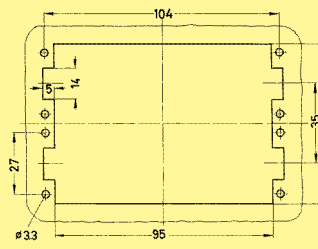


Number of contacts

**216** +



Inserts

Han  
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p><b>Crimp terminal</b></p> <p>Order crimp contacts separately (see Technical characteristics on page 02.06)</p> 	<p>Han DD®</p> <p>1 - 108 109 - 216</p>	<p><b>09 16 108 3001</b> 09 16 108 3011</p>	<p><b>09 16 108 3101</b> 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><b>Coding pin</b></p> 			<p><b>09 33 000 9915</b></p>	<p><b>Coding pin</b></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.

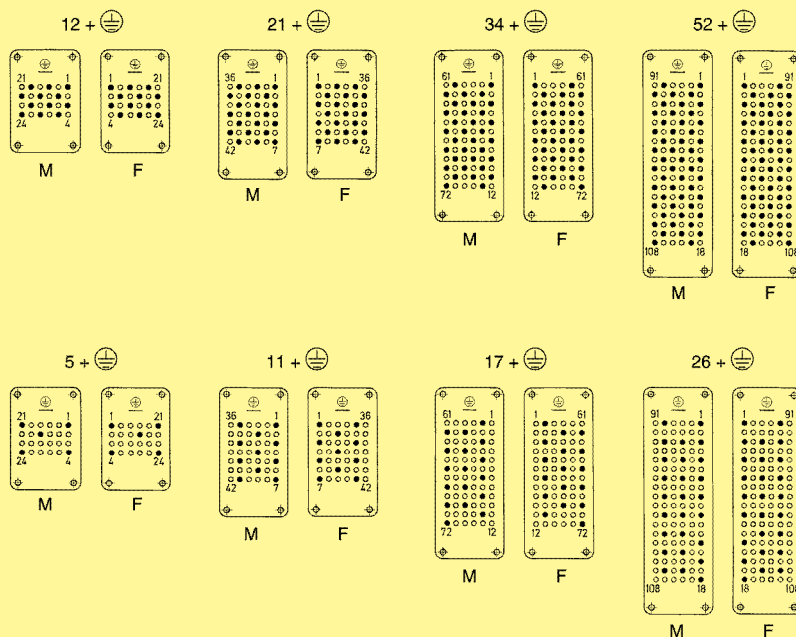
Han D / DD

## Series Han DD®

Rated current **10 A 400 V 6 kV 3**  
 Rated current 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

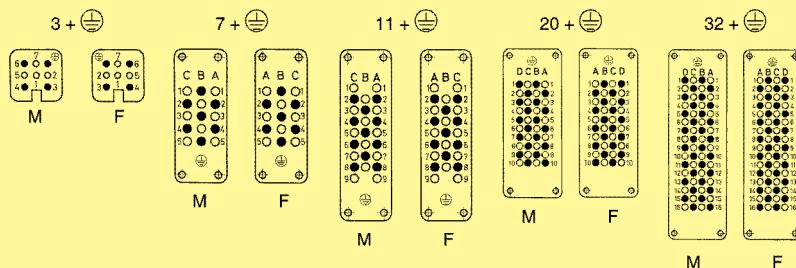


● Working contact ○ Without contact M - Male insert F - Female insert

## 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® PCB Adapter

Han  
D/DD

Identification	Part number	Drawing	Dimensions in mm						
<p><b>PCB Adapter</b> (contacts included) can be used in combination with all Han DD® inserts</p> <p>for PCB: up to 1.6 mm</p> <p>up to 2.4 mm</p>	<p><b>09 16 000 9905</b></p> <p><b>09 16 000 9908</b></p>	<table border="1"> <thead> <tr> <th>Part number</th> <th>a</th> </tr> </thead> <tbody> <tr> <td>09 16 000 9905</td> <td>1.6</td> </tr> <tr> <td>09 16 000 9908</td> <td>2.4</td> </tr> </tbody> </table>	Part number	a	09 16 000 9905	1.6	09 16 000 9908	2.4	
Part number	a								
09 16 000 9905	1.6								
09 16 000 9908	2.4								
<p><b>Han DD®</b></p> <p>Male contact</p> <p>Female contact</p>	<p><b>09 15 000 6191</b></p> <p><b>09 15 000 6291</b></p>								
<p><b>Application</b></p> <p>The PCB adapter is used to terminate control and data lines via pcb to the above mentioned connector inserts.</p> <p>Technical characteristics see page 20.04</p>			<ol style="list-style-type: none"> <li>① PCB adapter</li> <li>② Printed circuit board (PCB)</li> <li>③ Switch board panel</li> <li>④ Han DD® double contact</li> <li>⑤ Han DD® insert</li> <li>⑥ Han® B bulkhead mounted housing</li> </ol> <p>1) for Han® B EMC housings spacing of <math>12.5 \pm 0.2</math> mm is necessary as no flange seal is used</p>						