

Contents

Page

Technical characteristics Han D [®]	02.02
Technical characteristics Han DD [®]	02.05
Han [®] 7 D	02.07
Han [®] 8 D	02.08
Han [®] 15 D	02.09
Han [®] 25 D	02.10
Han [®] 50 D	02.11
Han [®] 24 DD	02.12
Han [®] 42 DD	02.13
Han [®] 40 D	02.14
Han [®] 72 DD	02.15
Han [®] 64 D	02.16
Han [®] 108 DD	02.17
Han [®] 80 D	02.18
Han [®] 144 DD	02.19
Han [®] 128 D	02.20
Han [®] 216 DD	02.21
Modified contact arrangements	02.22
Accessories	02.23

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

polyamide

- Han® 40 D/Han® 64 D

polycarbonate

Limiting temperatures

-40 °C ... +125 °C

Flammability acc. to UL 94

HB

- Han® 40 D/Han® 64 D

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 mm ² / AWG 26
Crimp terminal - max	2.5 mm ² / 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® - min	0.25 mm ² / AWG 24
Han-Quick Lock® - max	1.5 mm ² / AWG 16

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

Variants for Han® 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 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

ATTENTION!

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

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	10 A ~50 V / – 120 V 0.8 kV 3
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 ¹⁰ 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 ² / AWG 26
Crimp terminal - max	2.5 mm ² / AWG 14
Han-Quick Lock® - min	0.25 mm ² / AWG 24
Han-Quick Lock® - max	1.5 mm ² / 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

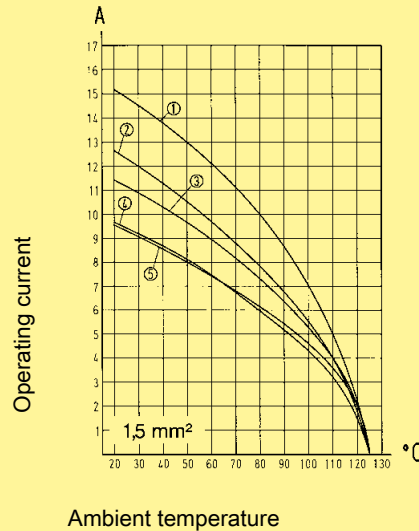
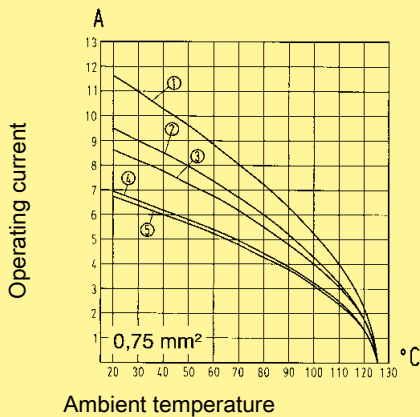
Crimping tools	chapter 99
Cable clamps	chapter 40
Coding of hoods/housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap®	chapter 11
Assembly plates for test connector	chapter 40

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

Han
D/DD



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

Identification	Wire gauge (mm²)	Part number Male contact	Part number 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																							
		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																								
	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		<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																								
	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																									
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																									
F.O. contacts for 1 mm plastic fibre		20 10 001 3212	20 10 001 3222		<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														
		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																										
20 10 001 3213	20 10 001 3222																										
20 10 001 3212	20 10 001 3222																										
20 10 001 3222	20 10 001 3222																										

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



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 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 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

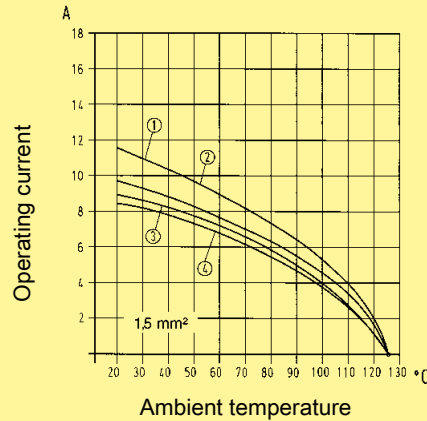
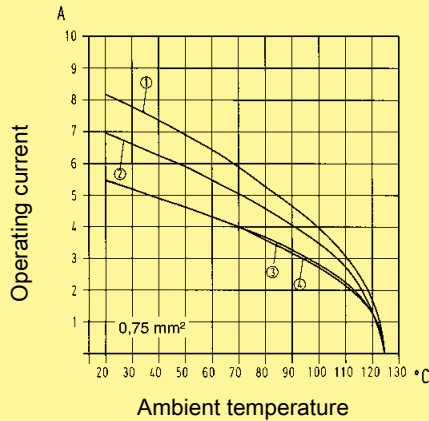
ATTENTION!

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

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 Male contact	Part number 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																							
		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																								
	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																								
F.O. contacts for 1 mm plastic fibre			20 10 001 3211	20 10 001 3221		<table border="1"> <thead> <tr> <th>Part number</th> <th>Series</th> </tr> </thead> <tbody> <tr> <td>20 10 001 3211</td> <td>Han® 24 DD, Han® 42 DD, Han® 72 DD, Han® 144 DD, Han® 108 DD, Han® 216 DD</td> </tr> <tr> <td>20 10 001 3221</td> <td>Han® 24 DD, Han® 42 DD, Han® 72 DD, Han® 144 DD, Han® 108 DD, Han® 216 DD</td> </tr> </tbody> </table>	Part number	Series	20 10 001 3211	Han® 24 DD, Han® 42 DD, Han® 72 DD, Han® 144 DD, Han® 108 DD, Han® 216 DD	20 10 001 3221	Han® 24 DD, Han® 42 DD, Han® 72 DD, Han® 144 DD, Han® 108 DD, Han® 216 DD															
		Part number	Series																								
20 10 001 3211	Han® 24 DD, Han® 42 DD, Han® 72 DD, Han® 144 DD, Han® 108 DD, Han® 216 DD																										
20 10 001 3221	Han® 24 DD, Han® 42 DD, Han® 72 DD, Han® 144 DD, Han® 108 DD, Han® 216 DD																										


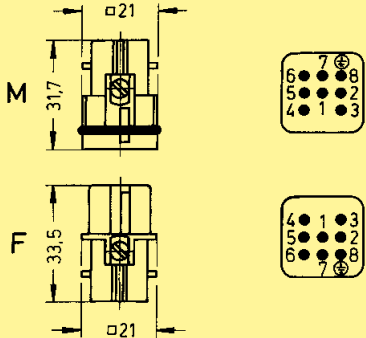

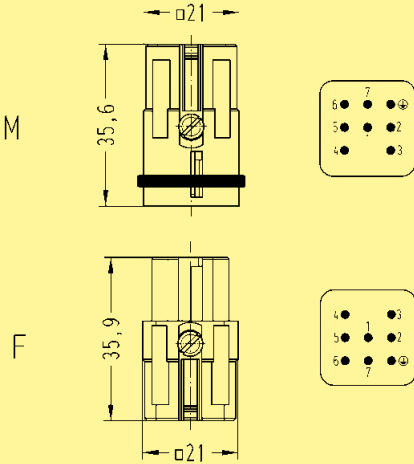


Number of contacts

7 +



Inserts

Han
D/DD

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</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>Han® 7 D Quick Lock</p>  <p>Attention Only for thermoplastic hoods/housings</p>	Han D®	09 21 007 2632	09 21 007 2732	<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>	

Stock items in bold type


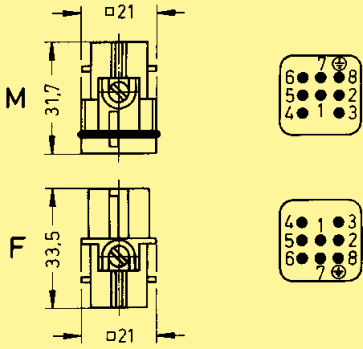

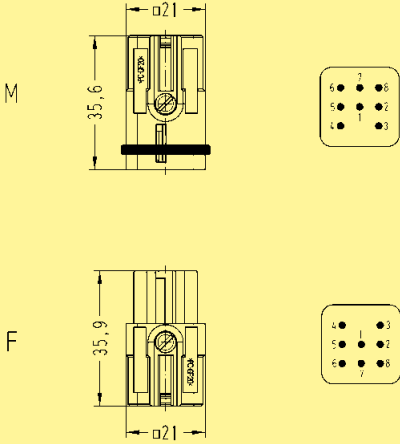


Number of contacts

8



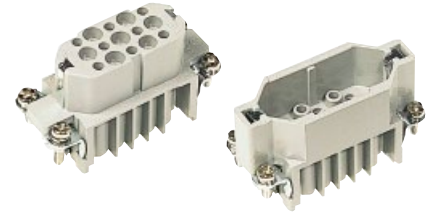
Han
D/DD

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 02.04)</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>Han® 8 D Quick Lock</p>  <p>For thermoplastics and metal hoods/housings</p>	Han D®	09 36 008 2632	09 36 008 2732	<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>	


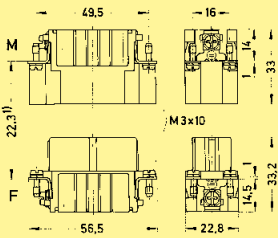
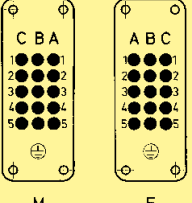
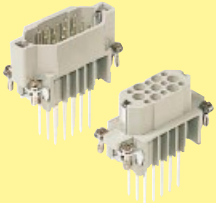
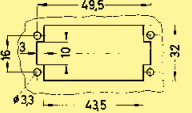


Number of contacts

15 +



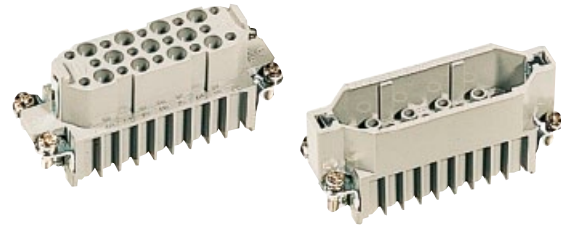
Inserts

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 02.04)</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>	


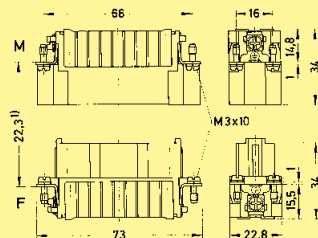
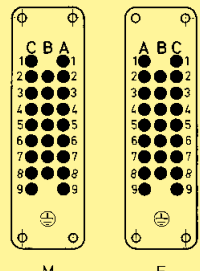
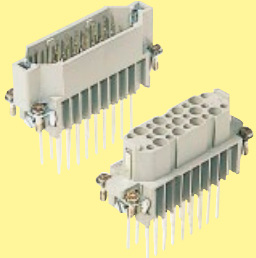
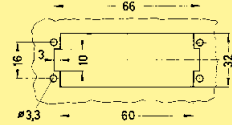

Number of contacts

25 +



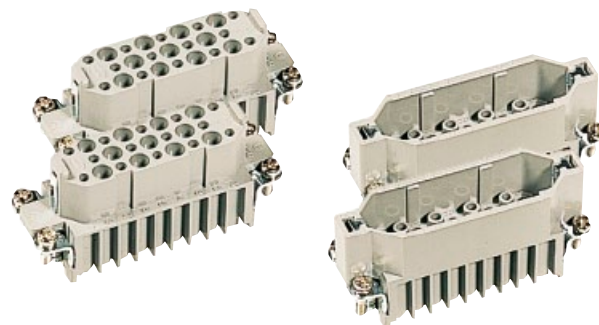
Han
D/DD

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 02.04)</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> 				<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>	


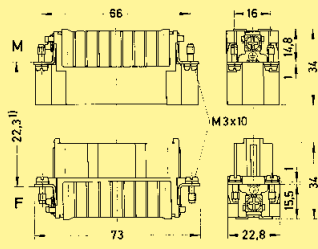
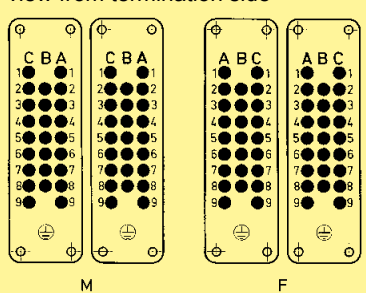
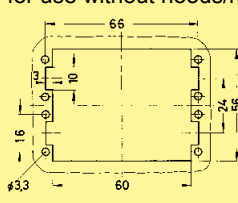
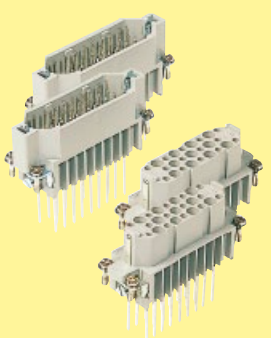
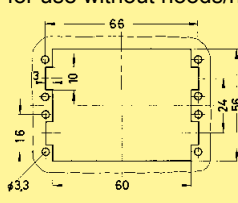

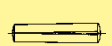
Number of contacts

50 +



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 02.04)</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>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>	

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>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.06)</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 +



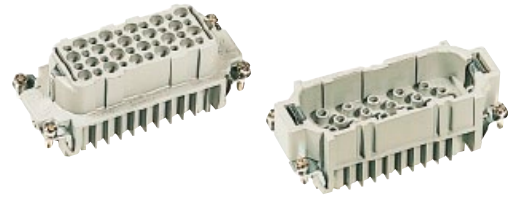
Inserts

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 02.06)</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>


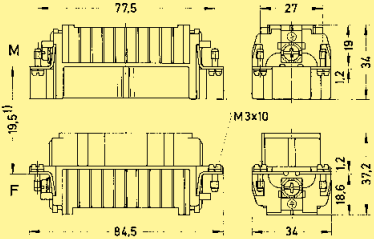
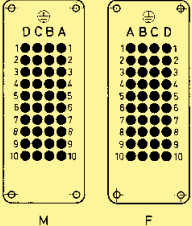
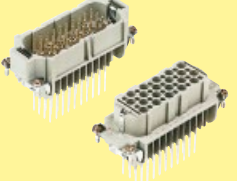
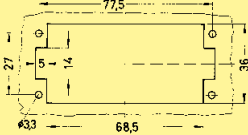


Number of contacts

40 +



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 02.04)</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>


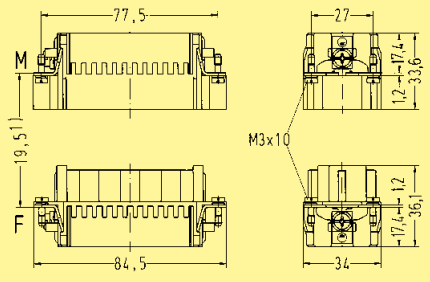
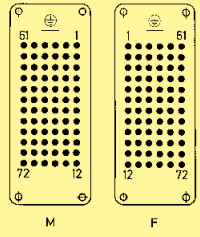
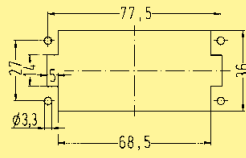


Number of contacts

72 +



Inserts

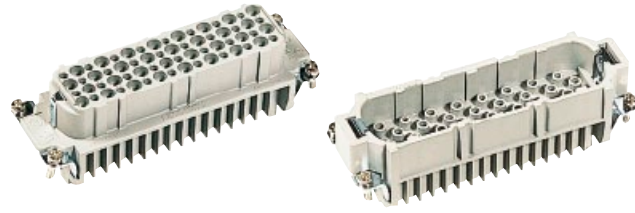
Han
D/DD

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 02.06)</p> 	Han DD®	09 16 072 3001	09 16 072 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>

Stock items in bold type

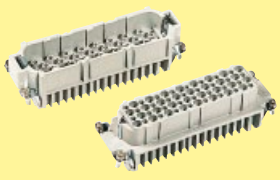
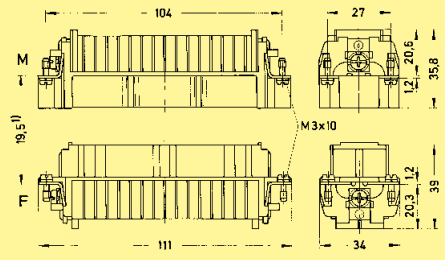
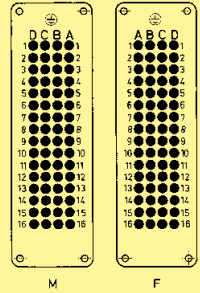
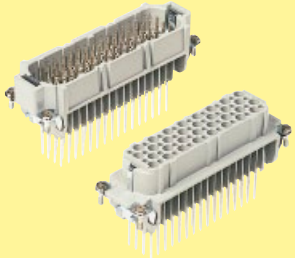
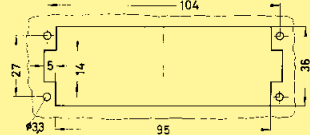

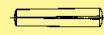
Number of contacts

64 +



Han
D/DD

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
<p>Crimp terminal</p> <p>Order crimp contacts separately (see Technical characteristics on page 02.04)</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> 		09 21 064 2601	09 21 064 2701	<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>	


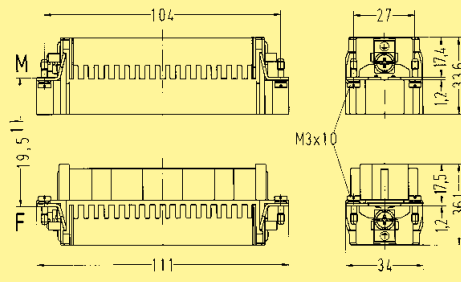
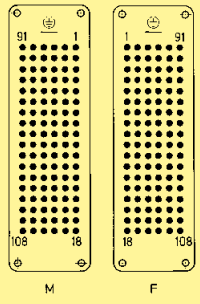
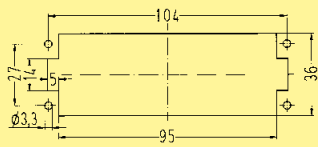

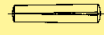
Number of contacts

108 +



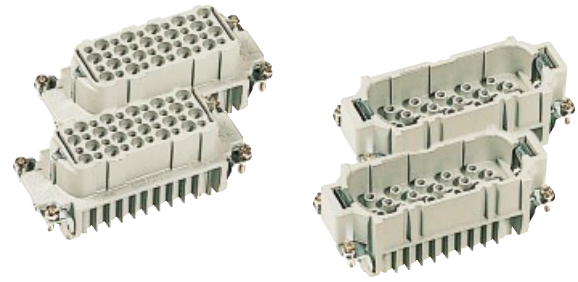
Inserts

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 02.06)</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>


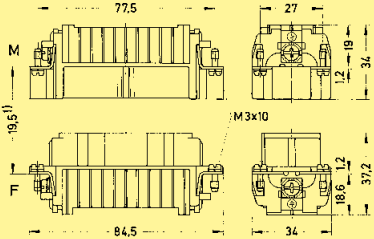
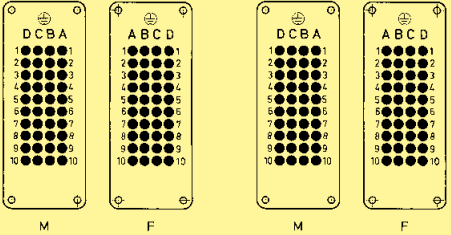
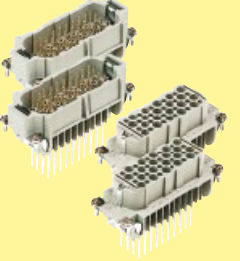
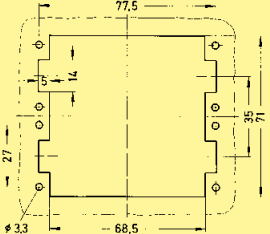


Number of contacts

80 +



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 02.04)</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>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>	


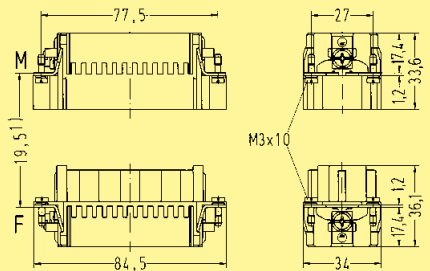
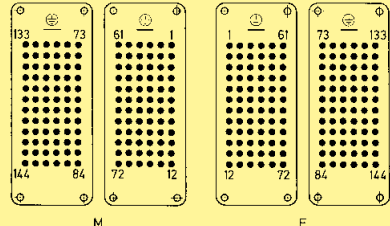
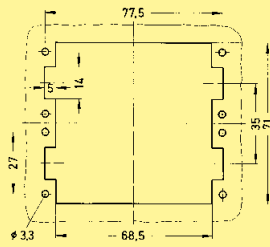

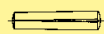
Number of contacts

144 +



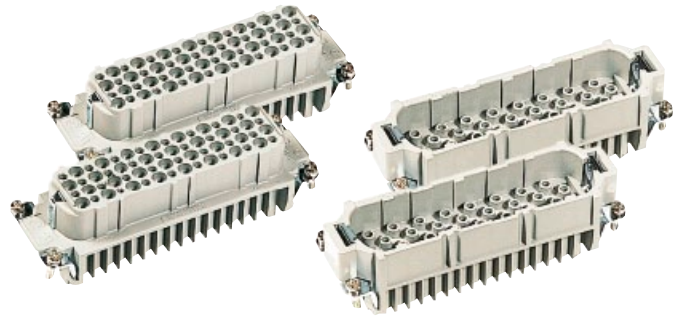
Inserts

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 02.06)</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>	

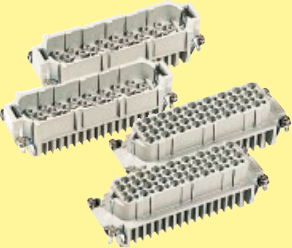
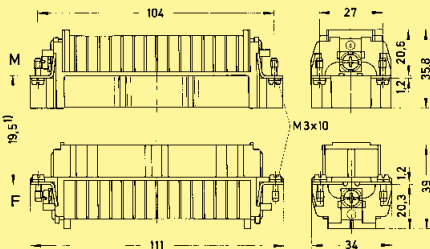
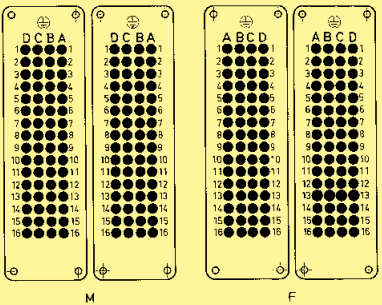
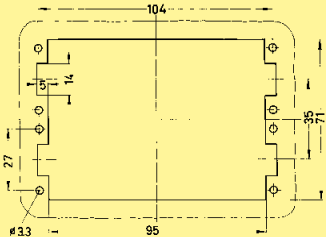

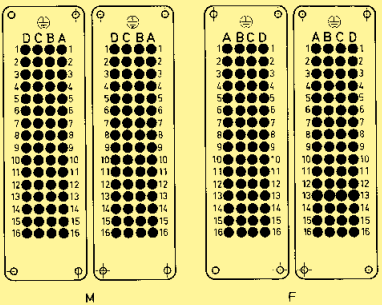


Number of contacts

128 +



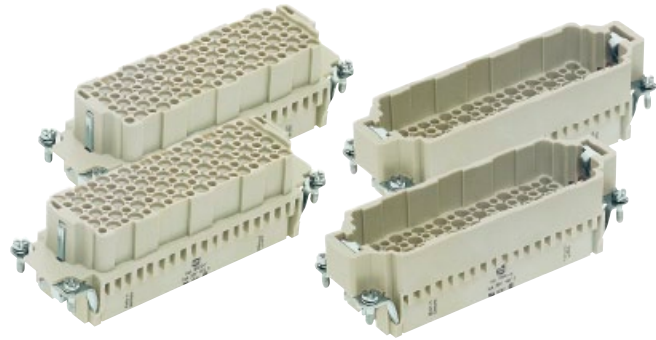
Han
D/DD

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 02.04)</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>Panel cut out for inserts for use without hoods/housings</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>	


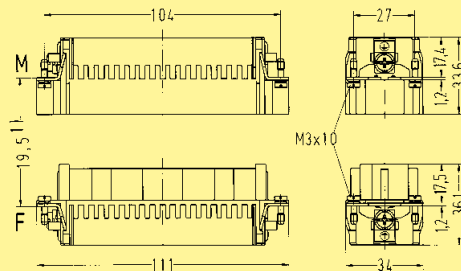
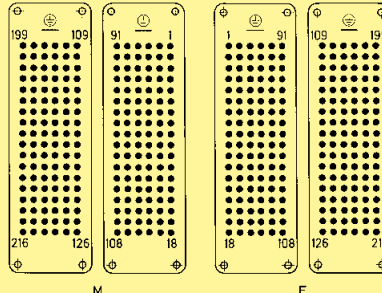
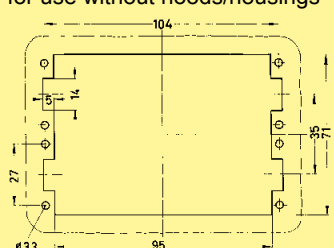

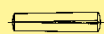
Number of contacts

216 +



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 02.06)</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>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>	

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.

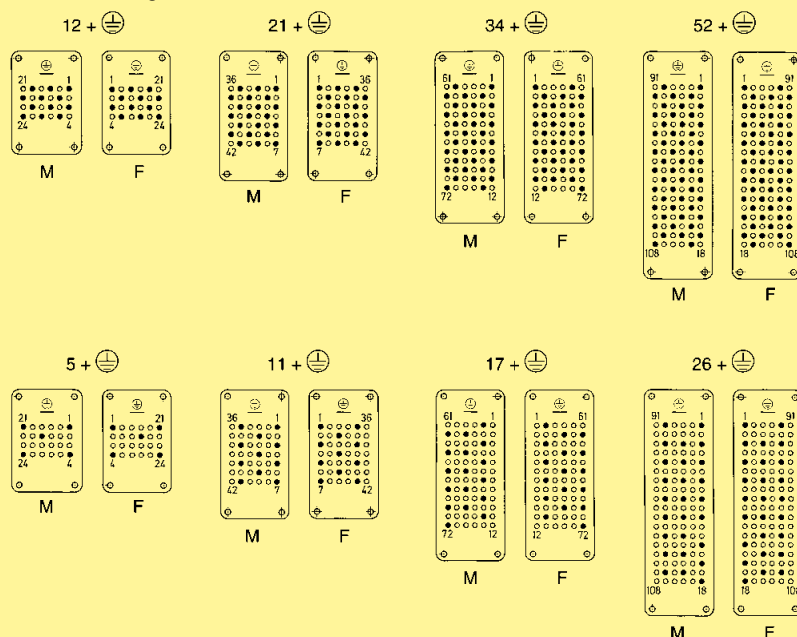
Han
D/DD

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

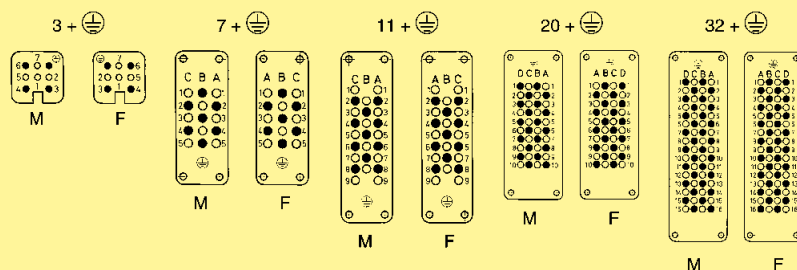


● Working contact ○ Without contact M - Male insert F - Female insert

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® PCB Adapter

Han
D/DD

Identification	Part number	Drawing	Dimensions in mm
----------------	-------------	---------	------------------

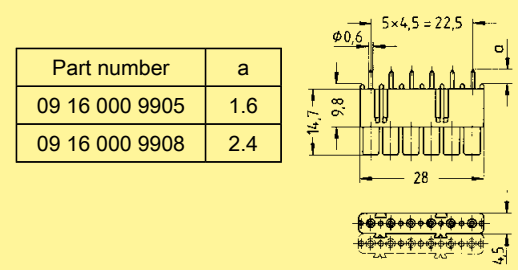
PCB Adapter
(contacts included)
can be used in combination with all Han DD® inserts

for PCB:
up to 1.6 mm

up to 2.4 mm

09 16 000 9905

09 16 000 9908



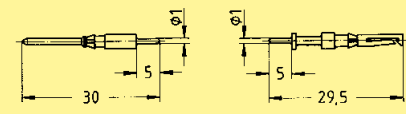
Han DD®

Male contact

Female contact

09 15 000 6191

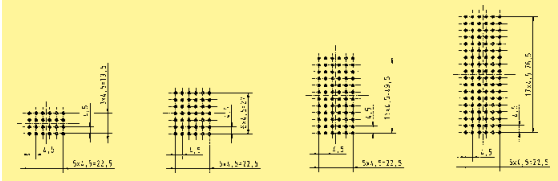
09 15 000 6291



Application

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

Technical characteristics see page 20.02



- 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

Han
D/DD

