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Han
E / EE

Features

- Available in different termination techniques
 - Han E® Crimp terminal
 - Han E® Screw terminal
 - Han® ES Cage-clamp terminal
 - Han® ESS Cage-clamp terminal
 - Han® EE Crimp terminal
 - Han® EEE Crimp terminal
- Han E® covers a wide range of cross core sections
- Wire protection for Han E® screw
- Suitable for hoods/housings of series Han® B, Han® M, Han® EMV, Han® HPR, Han® Easy Hood

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals



Inserts

Number of contacts 6, 10, 16, 24, 32 (2x 16),
48 (2x 24) + PE

Electrical data

acc. to EN 61 984 **16 A 500 V 6 kV 3**

Rated current 16 A

Rated voltage 500 V

Rated impulse voltage 6 kV

Pollution degree 3

Pollution degree 2 also 16 A 400/690 V 6 kV 2

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 $\leq 1 \text{ m}\Omega$

Crimp terminal - min 0.14 mm² / AWG 26

Crimp terminal - max 4 mm² / AWG 12

Screw terminal - min 0.75 mm² / AWG 18

Screw terminal - max 2.5 mm² / AWG 14

Tightening/test torque 0.5 Nm

Stripping length 7.5 mm

Hoods/Housings

Material aluminium die-cast

Surface powder-coated

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

Further selection of hoods/housings see chapter 31

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

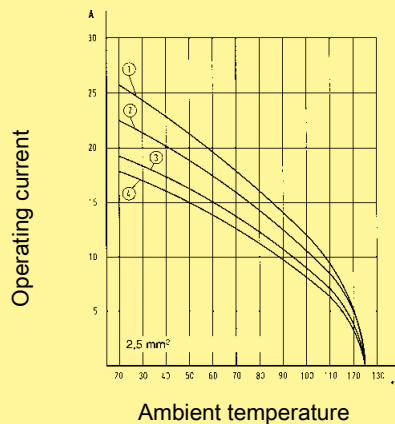
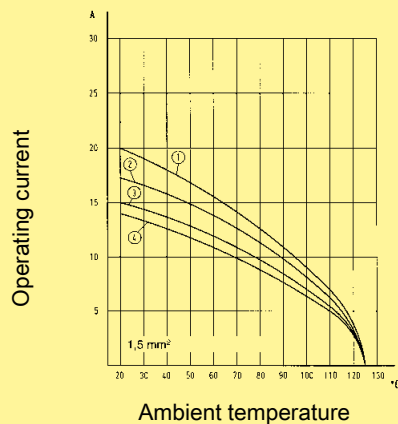
Assembly plates for test connector chapter 95

Special insert fixing screws chapter 95

Current carrying capacity

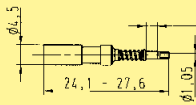
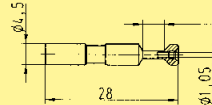
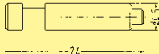
The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5-2



- ① Han® 6 E
- ② Han® 10 E
- ③ Han® 16 E
- ④ Han® 24 E

Han
E/EE

Identification	Wire gauge (mm²)	Male contact	Female contact	Drawing	Dimensions in mm
Crimp contacts				Operating contact Identification Relay contact	
Power contacts	0.14-0.37	09 33 000 6127	09 33 000 6227		
	0.5	09 33 000 6121	09 33 000 6220		
silver plated	0.75	09 33 000 6114	09 33 000 6214		
	1	09 33 000 6105	09 33 000 6205		
	1.5	09 33 000 6104	09 33 000 6204		
	2.5	09 33 000 6102	09 33 000 6202		
	3	09 33 000 6106	09 33 000 6206		
	4	09 33 000 6107	09 33 000 6207		
gold plated	0.14-0.37	09 33 000 6117	09 33 000 6217		
	0.5	09 33 000 6122	09 33 000 6222		
	0.75	09 33 000 6115	09 33 000 6215		
	1	09 33 000 6118	09 33 000 6218		
	1.5	09 33 000 6116	09 33 000 6216		
	2.5	09 33 000 6123	09 33 000 6223		
	4	09 33 000 6119	09 33 000 6221		
Relay contact silver plated	0.75-1	09 33 000 6109			
	1.5	09 33 000 6110			
	2.5	09 33 000 6111			
F.O. contacts				 	
for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321		
Coding pin			09 33 000 9954	 Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.	
for crimp inserts only					
					

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool
09 99 000 0001

Stock items in bold type

Features

- Han E® contacts with crimp termination
- High density of crimping contacts
- Coded insert
- Contacts available with either hard silver plated or hard gold plated surface
- Suitable for hoods/housings of series Han® B, Han® M, Han® EMV, Han® HPR, Han® Easy Hood

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
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

Further selection of hoods/housings see chapter 31

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals



Inserts

Number of contacts 10, 18, 32, 46, 64 (2x 32),
92 (2x 46) + PE

Electrical data
acc. to EN 61 984 **16 A 500 V 6 kV 3**
Rated current 16 A
Rated voltage 500 V
Rated impulse voltage 6 kV
Pollution degree 3
Pollution degree 2 also 16 A 830 V 8 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 $\leq 1 \text{ m}\Omega$
Crimp terminal - min 0.14 mm² / AWG 26
Crimp terminal - max 4 mm² / AWG 12

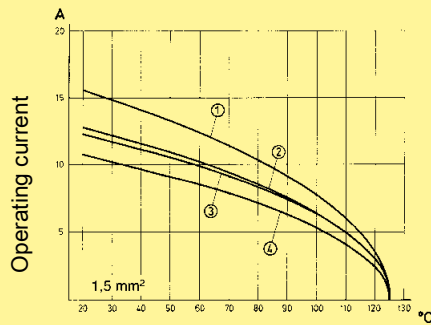
Accessories

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
Special insert fixing screws	chapter 95

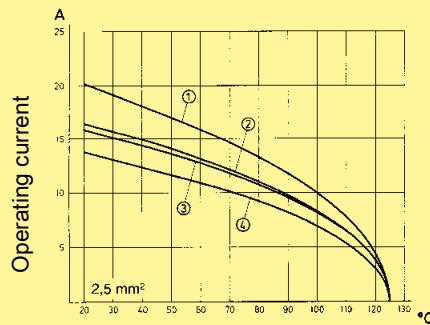
Current carrying capacity

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



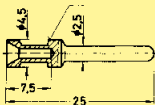
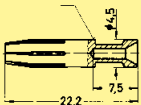
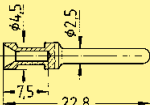
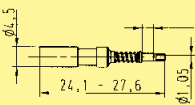
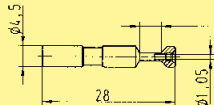
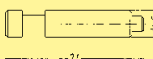
Ambient temperature



Ambient temperature

- ① Han® 10 EE
- ② Han® 18 EE
- ③ Han® 32 EE
- ④ Han® 46 EE

Han
E/EE

Identification	Wire gauge (mm ²)	Male contact	Female contact	Drawing	Dimensions in mm																																				
Crimp contacts																																									
Power contacts																																									
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 	0.14-0.37	09 33 000 6117	09 33 000 6217	<table border="1"><thead><tr><th>Identification</th><th colspan="2">Wire gauge</th><th>Stripping length</th></tr></thead><tbody><tr><td>no groove</td><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>7.5 mm</td></tr><tr><td>no groove</td><td>0.5 mm²</td><td>AWG 20</td><td>7.5 mm</td></tr><tr><td>1 groove*</td><td>0.75 mm²</td><td>AWG 18</td><td>7.5 mm</td></tr><tr><td>1 groove</td><td>1 mm²</td><td>AWG 18</td><td>7.5 mm</td></tr><tr><td>2 grooves</td><td>1.5 mm²</td><td>AWG 16</td><td>7.5 mm</td></tr><tr><td>3 grooves</td><td>2.5 mm²</td><td>AWG 14</td><td>7.5 mm</td></tr><tr><td>wide groove</td><td>3 mm²</td><td>AWG 12</td><td>7.5 mm</td></tr><tr><td>no groove</td><td>4 mm²</td><td>AWG 12</td><td>7.5 mm</td></tr></tbody></table> * on the back crimp collar	Identification	Wire gauge		Stripping length	no groove	0.14-0.37 mm ²	AWG 26-22	7.5 mm	no groove	0.5 mm ²	AWG 20	7.5 mm	1 groove*	0.75 mm ²	AWG 18	7.5 mm	1 groove	1 mm ²	AWG 18	7.5 mm	2 grooves	1.5 mm ²	AWG 16	7.5 mm	3 grooves	2.5 mm ²	AWG 14	7.5 mm	wide groove	3 mm ²	AWG 12	7.5 mm	no groove	4 mm ²	AWG 12	7.5 mm	
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Coding pin for crimp inserts only																																									
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Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool
09 99 000 0001

Stock items in bold type

Features

- Han E® contacts with crimp termination
- Coded insert
- Contacts available with either hard silver plated or hard gold plated surface
- Suitable for hoods/housings of series Han® B, Han® M, Han® EMV, Han® HPR, Han® Easy Hood

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
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

Further selection of hoods/housings see chapter 31

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

Number of contacts	40, 64 + PE
Electrical data acc. to EN 61 984	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
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	$\leq 1 \text{ m}\Omega$
Crimp terminal - min	0.14 mm ² / AWG 26
Crimp terminal - max	4 mm ² / AWG 12

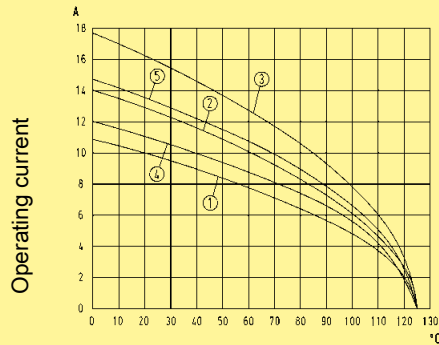
Accessories

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
Special insert fixing screws	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.

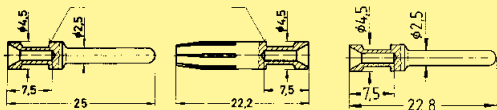
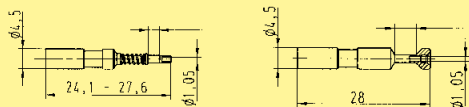
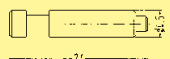
Measuring and testing techniques according to DIN EN 60 512-5-2



Ambient temperature

- ① Han® 64 EEE / 1.5 mm²
- ② Han® 64 EEE / 2.5 mm²
- ③ Han® 64 EEE / 4.0 mm²
- ④ Han® 40 EEE / 1.5 mm²
- ⑤ Han® 40 EEE / 2.5 mm²

Han
E/EE

Identification	Wire gauge (mm ²)	Male contact	Female contact	Drawing	Dimensions in mm																																							
Crimp contacts				Operating contact Identification Relay contact 																																								
Power contacts	0.14-0.37	09 33 000 6127	09 33 000 6227	<table><tr><th>Identification</th><th colspan="2">Wire gauge</th><th>Stripping length</th></tr><tr><td>no groove</td><td>0.14-0.37 mm²</td><td>AWG 26-22</td><td>7.5 mm</td></tr><tr><td>no groove</td><td>0.5 mm²</td><td>AWG 20</td><td>7.5 mm</td></tr><tr><td>1 groove*</td><td>0.75 mm²</td><td>AWG 18</td><td>7.5 mm</td></tr><tr><td>1 groove</td><td>1 mm²</td><td>AWG 18</td><td>7.5 mm</td></tr><tr><td>2 grooves</td><td>1.5 mm²</td><td>AWG 16</td><td>7.5 mm</td></tr><tr><td>3 grooves</td><td>2.5 mm²</td><td>AWG 14</td><td>7.5 mm</td></tr><tr><td>wide groove</td><td>3 mm²</td><td>AWG 12</td><td>7.5 mm</td></tr><tr><td>no groove</td><td>4 mm²</td><td>AWG 12</td><td>7.5 mm</td></tr><tr><td colspan="4">* on the back crimp collar</td></tr></table>	Identification	Wire gauge		Stripping length	no groove	0.14-0.37 mm ²	AWG 26-22	7.5 mm	no groove	0.5 mm ²	AWG 20	7.5 mm	1 groove*	0.75 mm ²	AWG 18	7.5 mm	1 groove	1 mm ²	AWG 18	7.5 mm	2 grooves	1.5 mm ²	AWG 16	7.5 mm	3 grooves	2.5 mm ²	AWG 14	7.5 mm	wide groove	3 mm ²	AWG 12	7.5 mm	no groove	4 mm ²	AWG 12	7.5 mm	* on the back crimp collar			
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for crimp inserts only																																												
																																												

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool
09 99 000 0001

Stock items in bold type

Features

- Reliable cage clamp termination
- No special tools required
- Vibration proofed

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
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

Further selection of hoods/housings see chapter 31

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals



Accessories

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
Special insert fixing screws	chapter 95

Inserts

Number of contacts	6, 10, 16, 24, 32 (2x 16), 48 (2x 24) + PE
Electrical data acc. to EN 61 984	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400/690 V 6 kV 2
Rated voltage acc. to UL/CSA	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

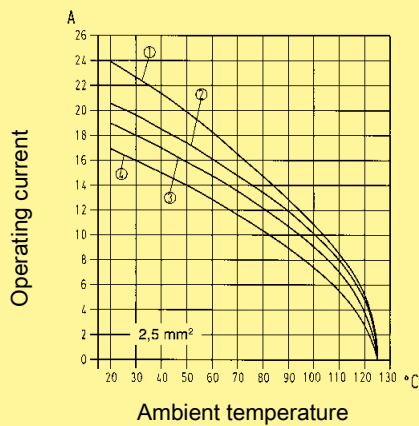
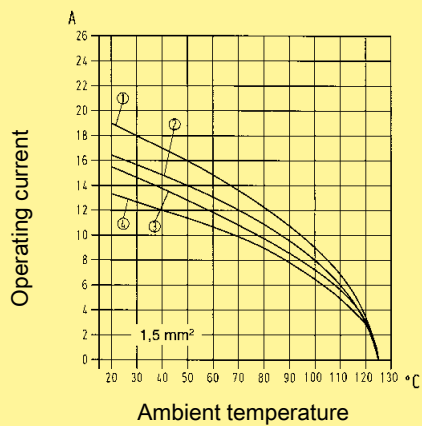
Contacts

Material	copper alloy
Surface - hard-silver plated	3 µm Ag
Contact resistance	$\leq 3 \text{ m}\Omega$
Cage clamp terminal - min	0.14 mm² / AWG 26
Cage clamp terminal - max	2.5 mm² / AWG 14

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



- ① Han® 6 ES
- ② Han® 10 ES
- ③ Han® 16 ES
- ④ Han® 24 ES

Features

- Reliable cage clamp termination
- No special tools required
- Vibration proofed
- 2 termination points per contact
- Suitable for star delta bridge

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
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

Further selection of hoods/housings see chapter 31

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals



Accessories

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
Special insert fixing screws	chapter 95

Inserts

Number of contacts 6, 10, 16, 24, 32 (2x 16),
48 (2x 24) + PE

Electrical data
acc. to EN 61 984

16 A 500 V 6 kV 3

Rated current

16 A

Rated voltage

500 V

Rated impulse voltage

6 kV

Pollution degree

3

Pollution degree 2 also

16 A 400/690 V 6 kV 2

Rated voltage
acc. to UL/CSA

600 V

Insulation resistance

$\geq 10^{10} \Omega$

Material

polycarbonate

Limiting temperatures

-40 °C ... +125 °C

Flammability acc. to UL 94

V 0

Mechanical working life

- mating cycles

≥ 500

Contacts

Material copper alloy

Surface - hard-silver plated 3 μm Ag

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

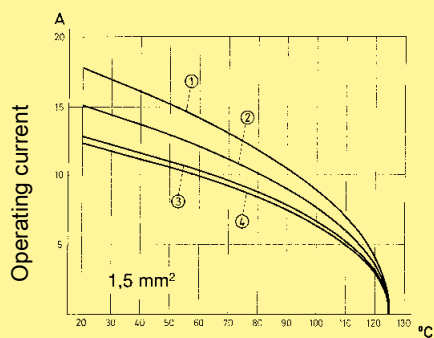
Cage clamp terminal - min 0.14 mm^2 / AWG 26

Cage clamp terminal - max 2.5 mm^2 / AWG 14

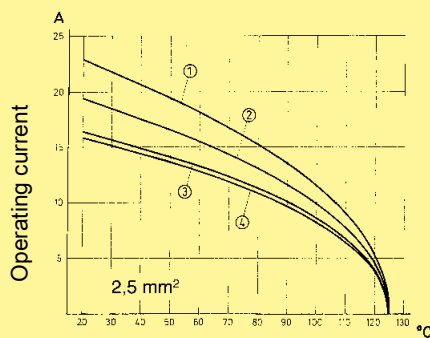
Current carrying capacity

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



Ambient temperature

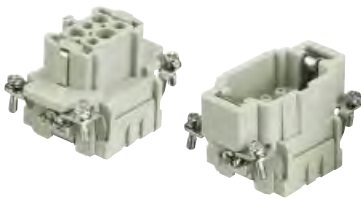


Ambient temperature

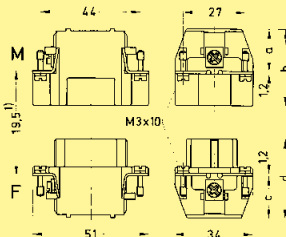
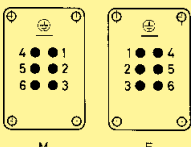
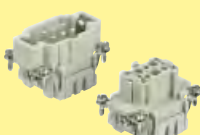
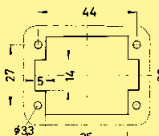
- ① Han® 6 ESS
- ② Han® 10 ESS
- ③ Han® 16 ESS
- ④ Han® 24 ESS

Number of contacts

6 + 

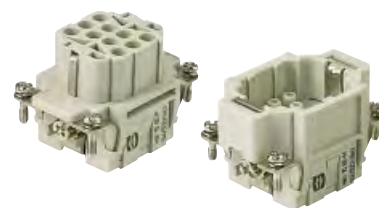


Inserts

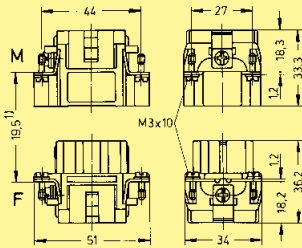
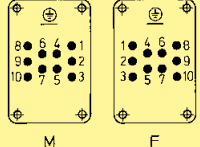
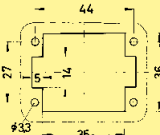
Identification	Series	Male insert (M)	Female insert (F)	Part number	Drawing	Dimensions in mm																				
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03) 	Han E®	09 33 006 2602	09 33 006 2702		 1) Distance for contact max. 21 mm																					
Screw terminal with wire protection 	Han E®	09 33 006 2601	09 33 006 2701		<table><tr><td></td><td>a</td><td>b</td><td>c</td><td>d</td></tr><tr><td>Han E® screw</td><td>18</td><td>33</td><td>18</td><td>35</td></tr><tr><td>Han® ES / Han E® crimp</td><td>19</td><td>34</td><td>19</td><td>36</td></tr><tr><td>Han® ESS</td><td>34</td><td>49</td><td>32</td><td>49</td></tr></table> Contact arrangement view from termination side 		a	b	c	d	Han E® screw	18	33	18	35	Han® ES / Han E® crimp	19	34	19	36	Han® ESS	34	49	32	49	
	a	b	c	d																						
Han E® screw	18	33	18	35																						
Han® ES / Han E® crimp	19	34	19	36																						
Han® ESS	34	49	32	49																						
Cage-clamp terminal 	Han® ES	09 33 006 2616	09 33 006 2716		Panel cut out 																					
Cage-clamp terminal two terminals per contact 	Han® ESS	09 33 006 2672	09 33 006 2772																							

Stock items in bold type

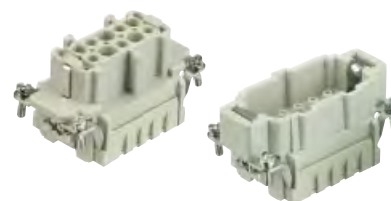
Number of contacts

10 + 

Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05)	Han® EE				
		09 32 010 3001	09 32 010 3101	 1) Distance for contact max. 21 mm Contact arrangement view from termination side  Panel cut out 	

Han
E/EE

$$10 + \textcircled{\text{⌋}}$$


Han
E / EE

Technical drawings of the M3x10 nut and washer assembly. The top row shows the side view (M) and front view (F) of the nut. The bottom row shows the side view (M) and front view (F) of the washer. Dimensions are provided for each view.

Nut Dimensions:

- Side view (M): Overall width 57, thread section width 19.5, thread length 12.
- Front view (F): Overall width 27, thread section width 12, thread length 12.

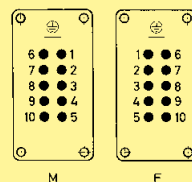
Washer Dimensions:

- Side view (M): Overall width 57, thread section width 19.5, thread length 12.
- Front view (F): Overall width 27, thread section width 12, thread length 12.

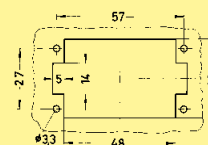
1) Distance for contact max. 21 mm

	a	b	c	d
Han E® screw	18	33	18	35
Han® ES / Han E® crimp	19	34	19	36
Han® ESS	34	49	32	49

Contact arrangement
view from termination side

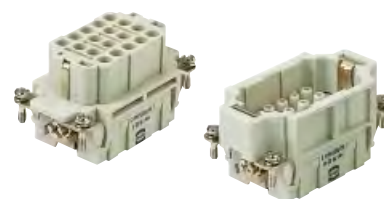


Panel cut out

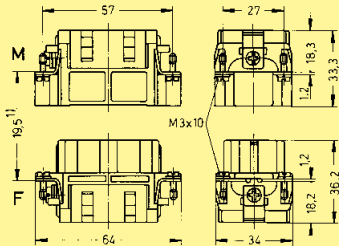
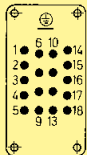
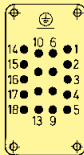
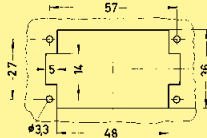


Number of contacts

18 +



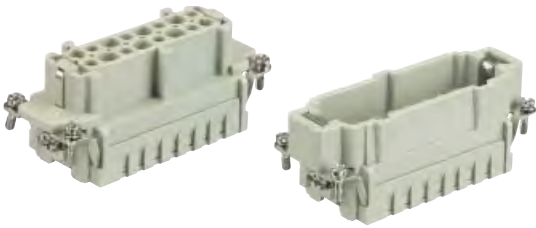
Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05) 	Han® EE	09 32 018 3001	09 32 018 3101	 1) Distance for contact max. 21 mm Contact arrangement view from termination side  M F Panel cut out 	

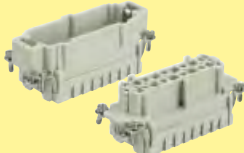
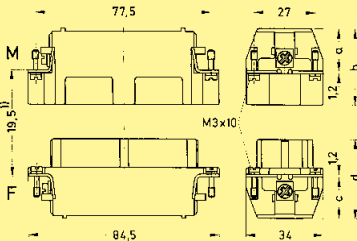
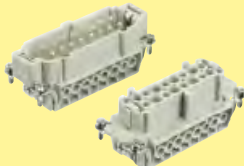
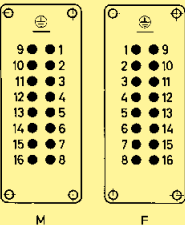
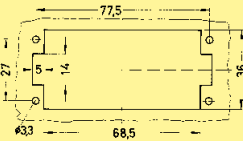


Number of contacts

16 +

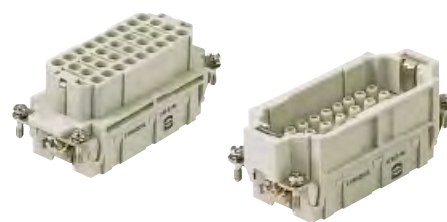


Inserts

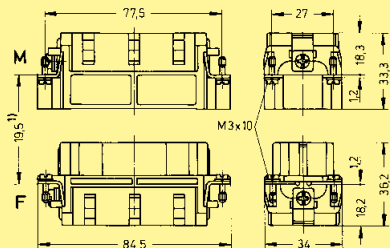
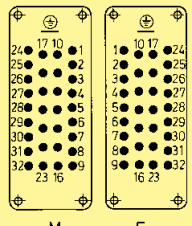
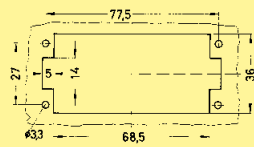
Identification	Series	Male insert (M)	Female insert (F)	Part number	Drawing	Dimensions in mm																			
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03) 	Han E®	09 33 016 2602	09 33 016 2702		 1) Distance for contact max. 21 mm <table><tr><td></td><td>a</td><td>b</td><td>c</td><td>d</td></tr><tr><td>Han E® screw</td><td>18</td><td>33</td><td>18</td><td>35</td></tr><tr><td>Han® ES / Han E® crimp</td><td>19</td><td>34</td><td>19</td><td>36</td></tr><tr><td>Han® ESS</td><td>34</td><td>49</td><td>32</td><td>49</td></tr></table>		a	b	c	d	Han E® screw	18	33	18	35	Han® ES / Han E® crimp	19	34	19	36	Han® ESS	34	49	32	49
	a	b	c	d																					
Han E® screw	18	33	18	35																					
Han® ES / Han E® crimp	19	34	19	36																					
Han® ESS	34	49	32	49																					
Screw terminal with wire protection 	Han E®	09 33 016 2601	09 33 016 2701		Contact arrangement view from termination side  Panel cut out 																				
Cage-clamp terminal 	Han® ES	09 33 016 2616	09 33 016 2716																						
Cage-clamp terminal two terminals per contact 	Han® ESS	09 33 016 2672	09 33 016 2772																						

Number of contacts

32 +



Inserts

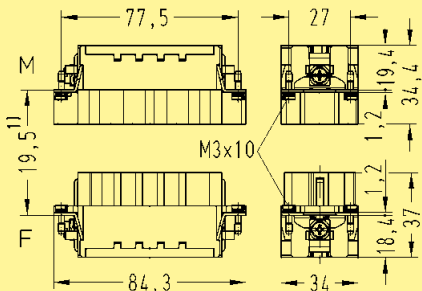
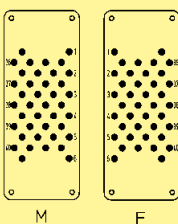
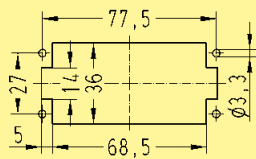
Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05) 	Han® EE	09 32 032 3001	09 32 032 3101	 1) Distance for contact max. 21 mm Contact arrangement view from termination side  Panel cut out 	

Han
E/EE

Number of contacts

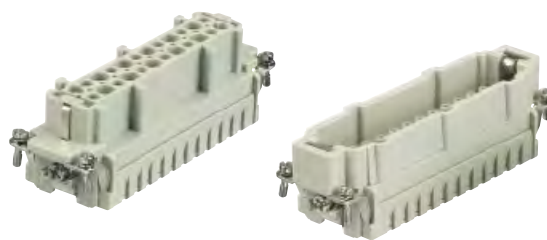
$$40 + \textcircled{\text{⏏}}$$


Inserts

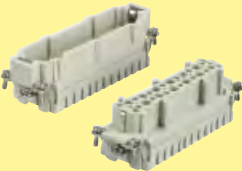
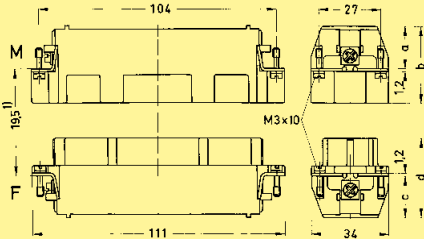
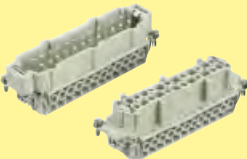
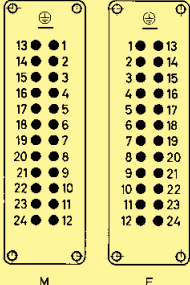
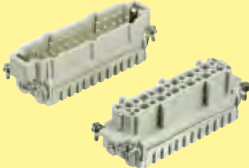
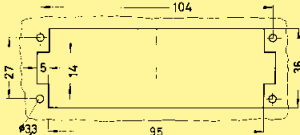
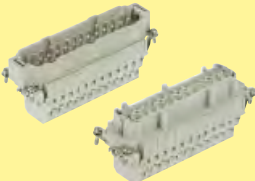
Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.07)	Han® EEE	09 32 040 3001	09 32 040 3101	 1) Distance for contact max. 21 mm	
				Contact arrangement view from termination side	
					
				Panel cut out	
					

Number of contacts

24 +



Inserts

Identification	Series	Part number		Drawing	Dimensions in mm																			
		Male insert (M)	Female insert (F)																					
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03) 	Han E®	09 33 024 2602	09 33 024 2702	 1) Distance for contact max. 21 mm <table><tr><td></td><td>a</td><td>b</td><td>c</td><td>d</td></tr><tr><td>Han E® screw</td><td>18</td><td>33</td><td>18</td><td>35</td></tr><tr><td>Han® ES / Han E® crimp</td><td>19</td><td>34</td><td>19</td><td>36</td></tr><tr><td>Han® ESS</td><td>34</td><td>49</td><td>32</td><td>49</td></tr></table>		a	b	c	d	Han E® screw	18	33	18	35	Han® ES / Han E® crimp	19	34	19	36	Han® ESS	34	49	32	49
					a	b	c	d																
Han E® screw	18	33	18	35																				
Han® ES / Han E® crimp	19	34	19	36																				
Han® ESS	34	49	32	49																				
Screw terminal with wire protection 	Han E®	09 33 024 2601	09 33 024 2701	Contact arrangement view from termination side 																				
Cage-clamp terminal 	Han® ES	09 33 024 2616	09 33 024 2716	Panel cut out 																				
Cage-clamp terminal two terminals per contact 					Han® ESS	09 33 024 2672	09 33 024 2772																	

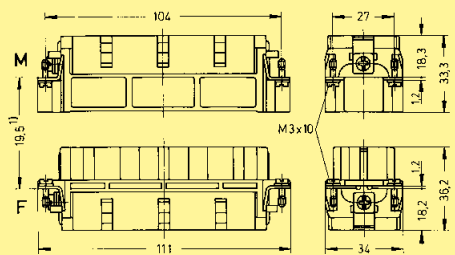
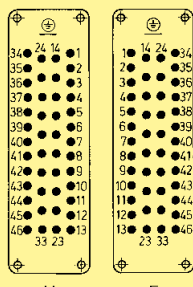
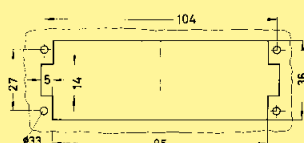
Han
E/EE



46 + 



Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05) 	Han® EE	09 32 046 3001	09 32 046 3101	 1) Distance for contact max. 21 mm Contact arrangement view from termination side  Panel cut out 	

Number of contacts

64 +



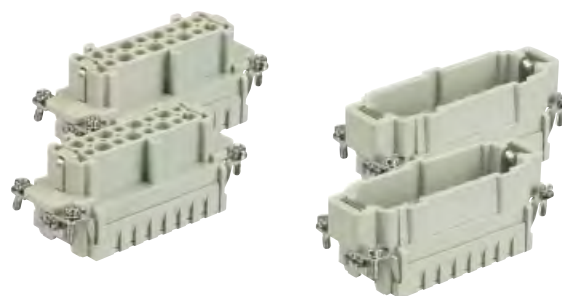
Inserts

Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.07)	Han® EEE	09 32 064 3001	09 32 064 3101	1) Distance for contact max. 21 mm Contact arrangement view from termination side Panel cut out	

Han
E/EE

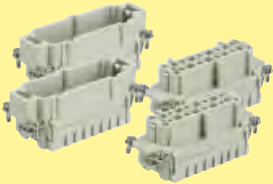
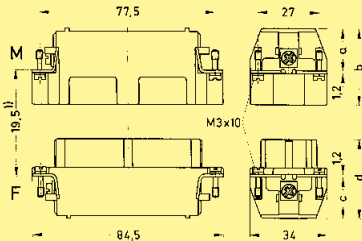
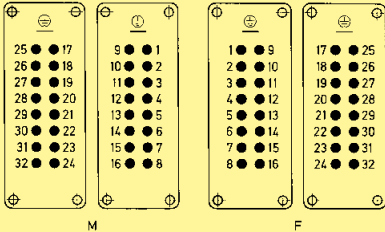
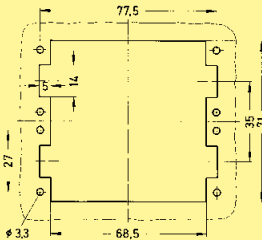
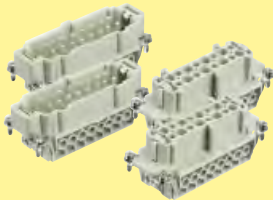
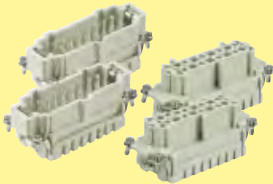
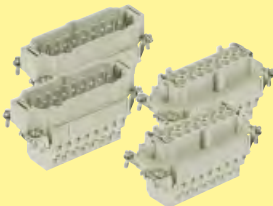
Number of contacts

32 +



Inserts

Han
E/EE

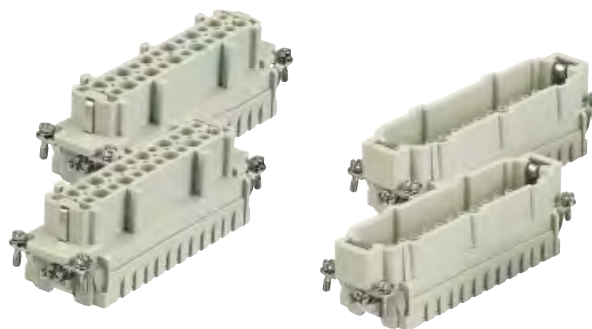
Identification	Series	Part number		Drawing	Dimensions in mm																			
		Male insert (M)	Female insert (F)																					
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03) 	Han E® 1 - 16 17 - 32	09 33 016 2602 09 33 016 2612	09 33 016 2702 09 33 016 2712	 1) Distance for contact max. 21 mm <table><tr><td></td><td>a</td><td>b</td><td>c</td><td>d</td></tr><tr><td>Han E® screw</td><td>18</td><td>33</td><td>18</td><td>35</td></tr><tr><td>Han® ES / Han E® crimp</td><td>19</td><td>34</td><td>19</td><td>36</td></tr><tr><td>Han® ESS</td><td>34</td><td>49</td><td>32</td><td>49</td></tr></table> Contact arrangement view from termination side  Panel cut out 		a	b	c	d	Han E® screw	18	33	18	35	Han® ES / Han E® crimp	19	34	19	36	Han® ESS	34	49	32	49
	a	b	c	d																				
Han E® screw	18	33	18	35																				
Han® ES / Han E® crimp	19	34	19	36																				
Han® ESS	34	49	32	49																				
Screw terminal with wire protection 	Han E® 1 - 16 17 - 32	09 33 016 2601 09 33 016 2611	09 33 016 2701 09 33 016 2711																					
Cage-clamp terminal 	Han® ES 1 - 16 17 - 32	09 33 016 2616 09 33 016 2626	09 33 016 2716 09 33 016 2726																					
Cage-clamp terminal two terminals per contact 	Han® ESS 1 - 16 1 - 16	09 33 016 2672 09 33 016 2672	09 33 016 2772 09 33 016 2772																					

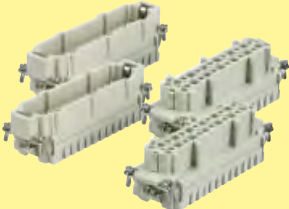
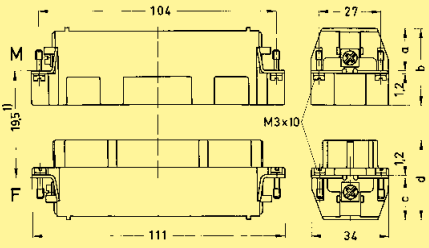
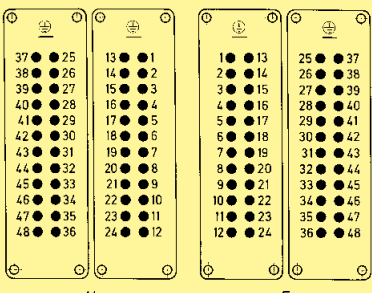
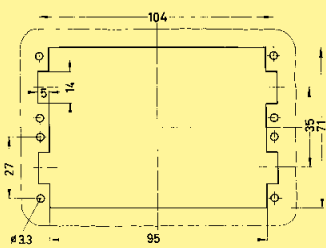
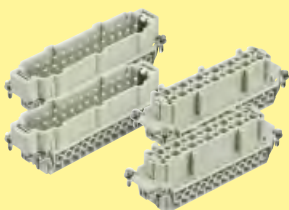
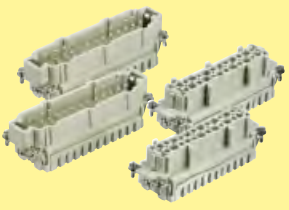
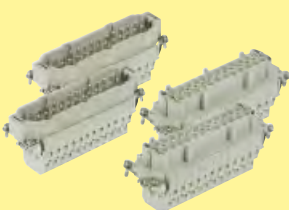
Stock items in bold type

Number of contacts

48 +

Inserts

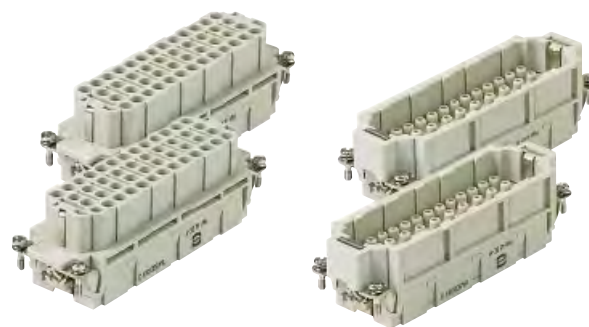
Han
E/EE

Identification		Series	Part number		Drawing	Dimensions in mm																			
		Male insert (M)	Female insert (F)																						
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03) 	Han E®				 1) Distance for contact max. 21 mm <table><tr><td></td><td>a</td><td>b</td><td>c</td><td>d</td></tr><tr><td>Han E® screw</td><td>18</td><td>33</td><td>18</td><td>35</td></tr><tr><td>Han® ES / Han E® crimp</td><td>19</td><td>34</td><td>19</td><td>36</td></tr><tr><td>Han® ESS</td><td>34</td><td>49</td><td>32</td><td>49</td></tr></table> Contact arrangement view from termination side  Panel cut out 		a	b	c	d	Han E® screw	18	33	18	35	Han® ES / Han E® crimp	19	34	19	36	Han® ESS	34	49	32	49
	a	b	c	d																					
Han E® screw	18	33	18	35																					
Han® ES / Han E® crimp	19	34	19	36																					
Han® ESS	34	49	32	49																					
Screw terminal with wire protection 	Han E®																								
Cage-clamp terminal 	Han® ES																								
Cage-clamp terminal two terminals per contact 	Han® ESS																								

Number of contacts

92 +

Inserts



Identification	Series	Part number		Drawing	Dimensions in mm
		Male insert (M)	Female insert (F)		
Crimp termination Order crimp contacts separately (see Technical characteristics on page 03.05)	Han® EE				
	1 - 46 47 - 92	09 32 046 3001 09 32 046 3011	09 32 046 3101 09 32 046 3111	1) Distance for contact max. 21 mm Contact arrangement view from termination side Panel cut out	

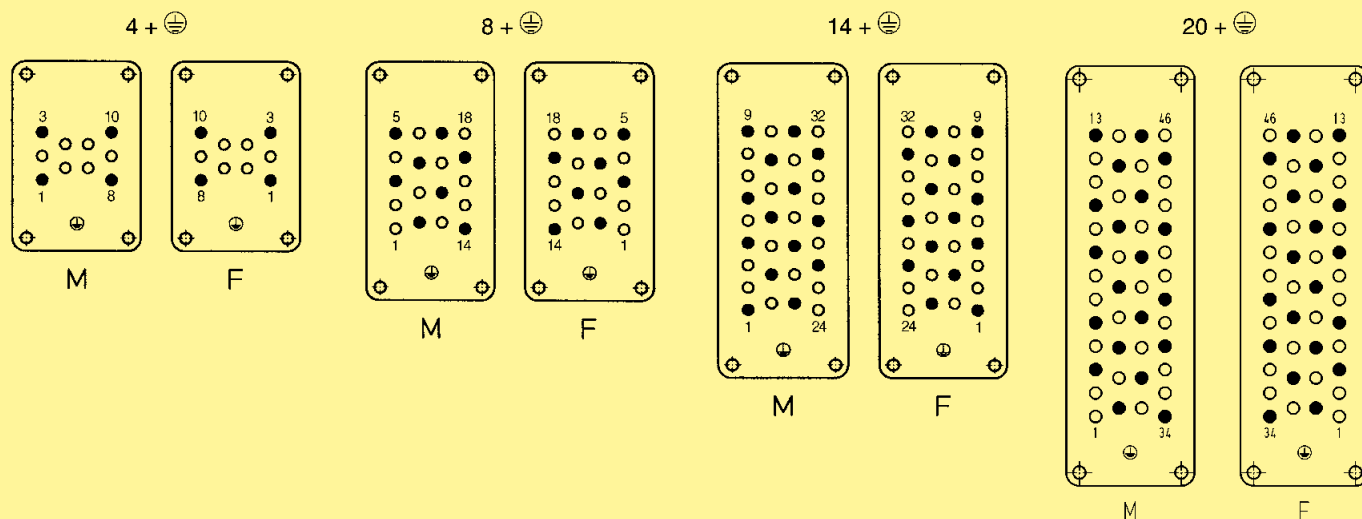
Han
E/EE

Modified contact arrangement up to 1000 V

The connector series Han® EE equipped with all contacts may be used for voltages up to 500 V ~ pollution degree 3. A modified contact loading arrangement permits use up to 1000 V ~ pollution degree also in pollution degree C. Fully equipped connectors may also be used up to 1000 V ~ but in a lower pollution degree. See page 00.22. According to DIN EN 61 984 connectors should not be coupled or decoupled under electrical load.

690 V Pollution degree 3

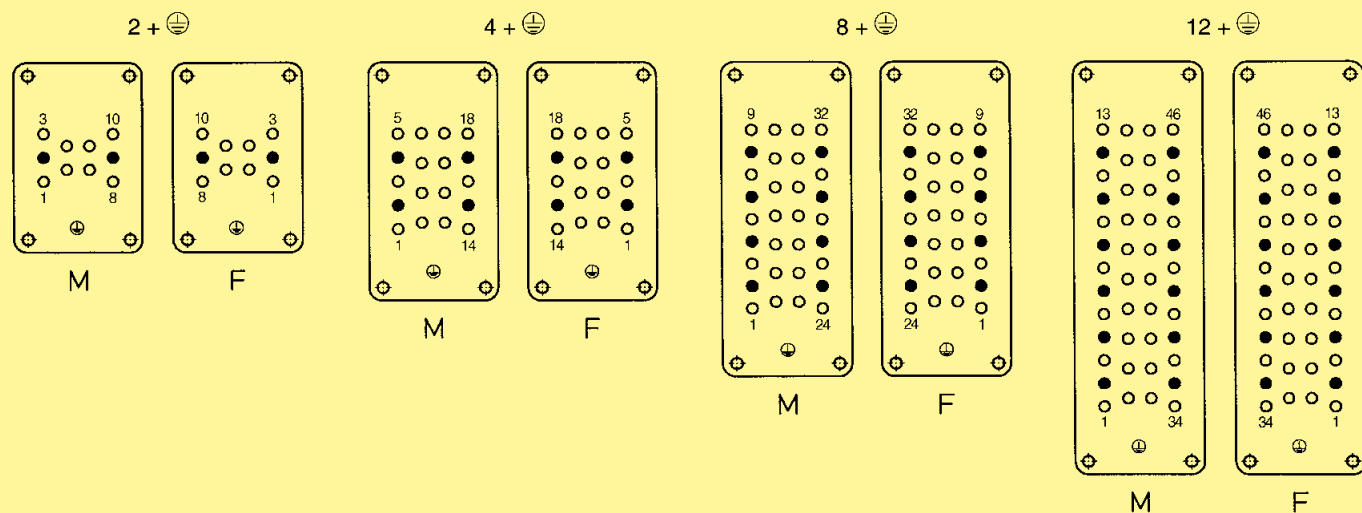
Contact arrangement view from termination side



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

1000 V Pollution degree 3

Contact arrangement view from termination side



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