

## Features

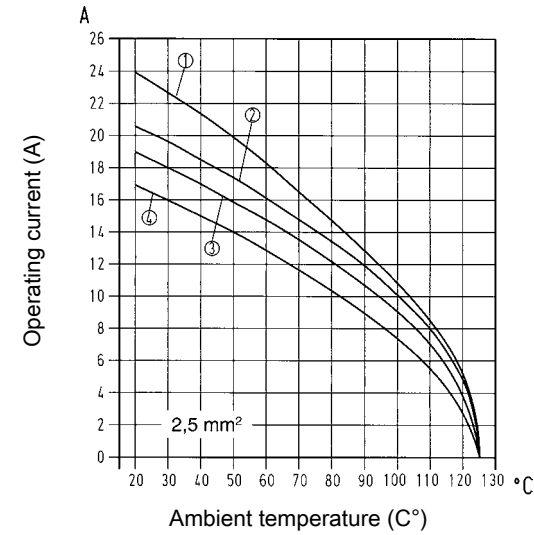
- Reliable cage clamp termination
- Han® ESS: two termination points per contact
- Vibration proofed
- No special tools required

## Derating

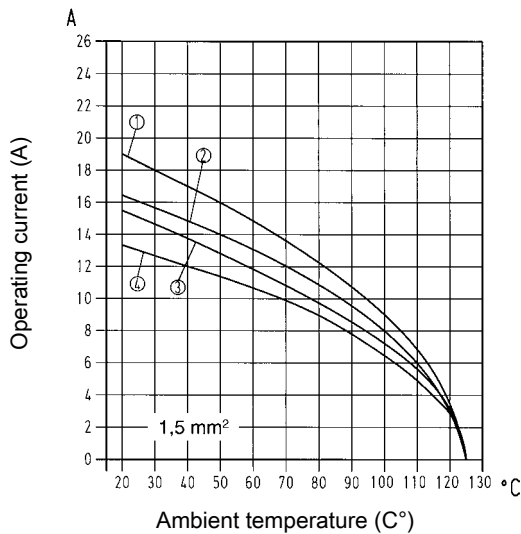
### Current carrying capacity

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 acc. to IEC 60512-5-2

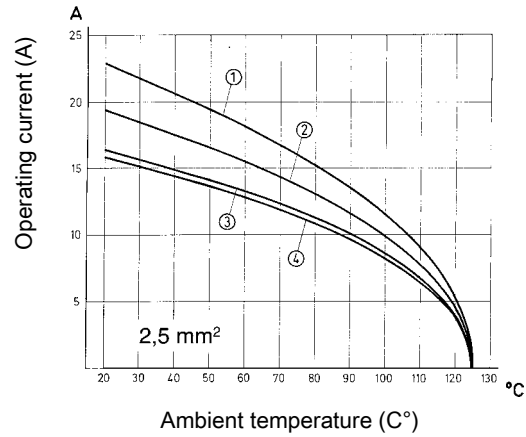


- ① Han® 6 ES
- ② Han® 10 ES
- ③ Han® 16 ES Han® 32 ES
- ④ Han® 24 ES Han® 48 ES

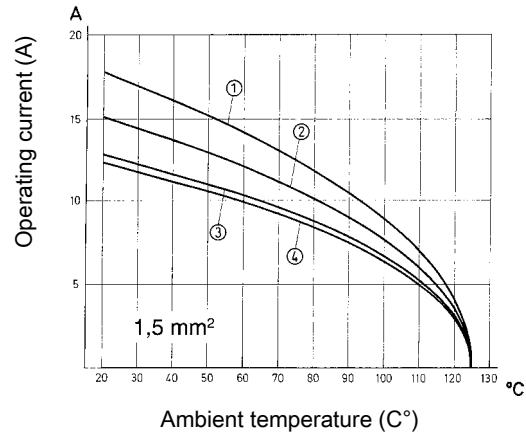


- ① Han® 6 ES
- ② Han® 10 ES
- ③ Han® 16 ES Han® 32 ES
- ④ Han® 24 ES Han® 48 ES

## Derating



- ① Han® 6 ESS
- ② Han® 10 ESS
- ③ Han® 16 ESS Han® 32 ESS
- ④ Han® 24 ESS Han® 48 ESS



- ① Han® 6 ESS
- ② Han® 10 ESS
- ③ Han® 16 ESS Han® 32 ESS
- ④ Han® 24 ESS Han® 48 ESS

## Technical characteristics

Contacts	6, 10, 16, 24, 32, 48
Electrical data acc. to IEC 61984	<b>16 A 500 V 6 kV 3</b>
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	≥10 <sup>10</sup> Ohm
Limiting temperatures	-40 °C ... 125 °C
Flammability (insert) acc. to UL 94	V 0
Mating cycles	≥500
Material (insert)	polycarbonate
Colour (insert)	RAL 7032 (light grey)
Material (contact)	copper alloy

## Specifications and approvals

IEC 60664-1  
IEC 61984



## Details

Internal use in the switch cabinet in conjunction with Han-Snap®  
(see chapter 11)


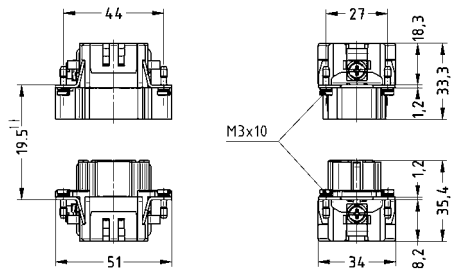

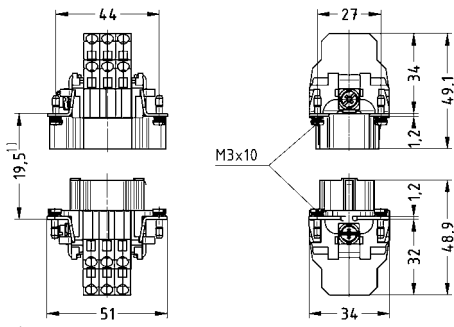
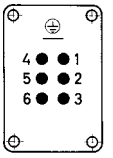
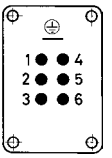
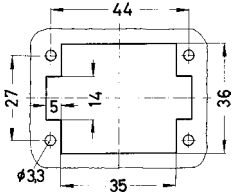
Suitable for hoods/housings of series Han® B, Han® M, Han®  
EMV, Han® HPR, Han® Easy Hood (see chapter 31)

Number of contacts

6+

500 V  
16 A

Han  
E/EE


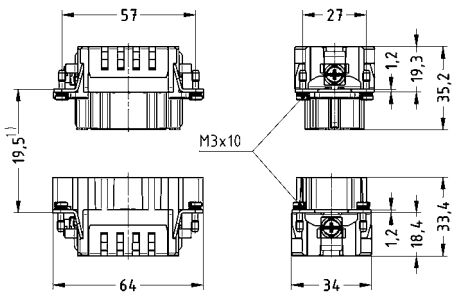
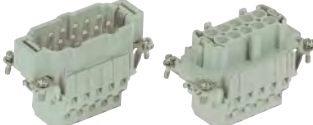
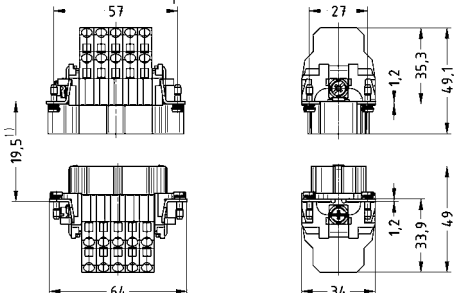
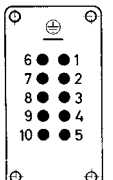
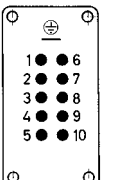
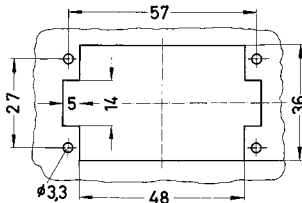
Identification	Wire cross section (mm <sup>2</sup> )	Part number		Drawing Dimensions in mm
		male	female	
<p>Han® ES, Cage-clamp terminal, silver plated contacts, contact resistance ≤3 mOhm</p> 	0.14 – 2.5	09 33 006 2616	09 33 006 2716	 <p>1) Distance for contact max. 21 mm</p>
<p>Han® ESS, Cage-clamp terminal, silver plated contacts, contact resistance ≤3 mOhm</p>  <p>two terminals per contact</p>	0.14 – 2.5	09 33 006 2672	09 33 006 2772	 <p>1) Distance for contact max. 21 mm</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>M</p> </div> <div style="text-align: center;">  <p>F</p> </div> </div> <p>Contact arrangement (view from termination side)</p>  <p>Panel cut out</p>

Number of contacts

10+

500 V  
16 A

Han  
E/EE


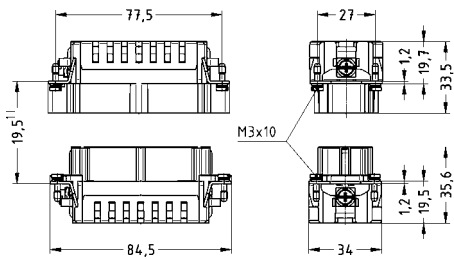

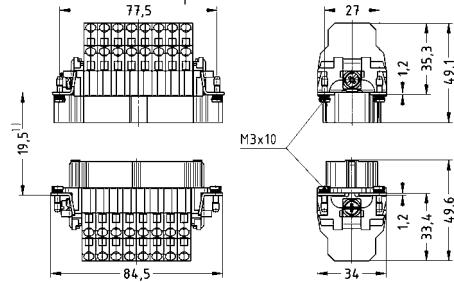
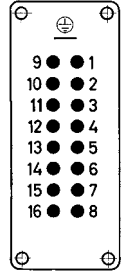
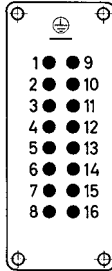
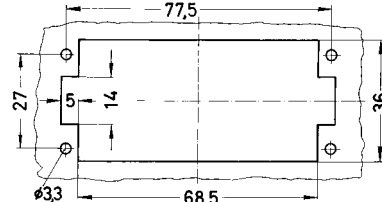
Identification	Wire cross section (mm <sup>2</sup> )	Part number male female		Drawing Dimensions in mm
<p>Han® ES, Cage-clamp terminal, silver plated contacts, contact resistance ≤3 mOhm</p> 	0.14 – 2.5	09 33 010 2616	09 33 010 2716	 <p>1) Distance for contact max. 21 mm</p>
<p>Han® ESS, Cage-clamp terminal, silver plated contacts, contact resistance ≤3 mOhm</p>  <p>two terminals per contact</p>	0.14 – 2.5	09 33 010 2672	09 33 010 2772	 <p>1) Distance for contact max. 21 mm</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>M</p> </div> <div style="text-align: center;">  <p>F</p> </div> </div> <p>Contact arrangement (view from termination side)</p>  <p>Panel cut out</p>

Number of contacts

16+

500 V  
16 A

Han  
E/EE


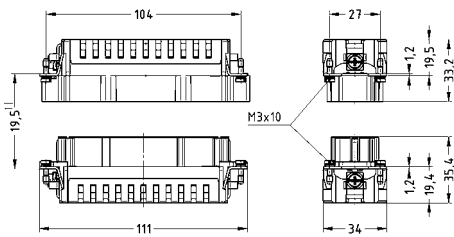

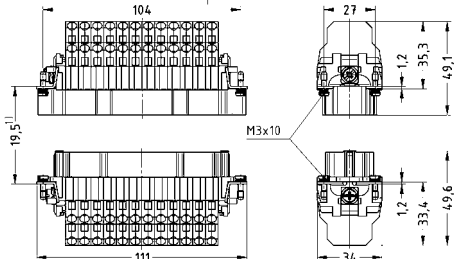
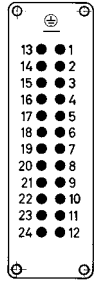
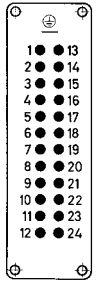
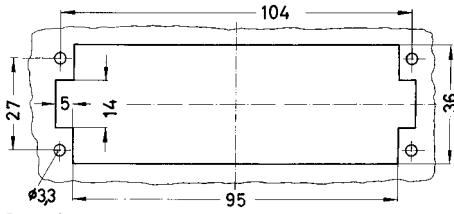
Identification	Wire cross section (mm <sup>2</sup> )	Part number		Drawing Dimensions in mm
		male	female	
Han® ES, Cage-clamp terminal, silver plated contacts, contact resistance ≤3 mOhm  	0.14 – 2.5	09 33 016 2616	09 33 016 2716	 <p>1) Distance for contact max. 21 mm</p>
Han® ESS, Cage-clamp terminal, silver plated contacts, contact resistance ≤3 mOhm    two terminals per contact	0.14 – 2.5	09 33 016 2672	09 33 016 2772	 <p>1) Distance for contact max. 21 mm</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>M</p> </div> <div style="text-align: center;">  <p>F</p> </div> </div> <p>Contact arrangement (view from termination side)</p>  <p>Panel cut out</p>

Number of contacts

24+

500 V  
16 A

Han  
E/EE

Identification	Wire cross section (mm <sup>2</sup> )	Part number		Drawing Dimensions in mm
		male	female	
<p>Han® ES, Cage-clamp terminal, silver plated contacts, contact resistance ≤3 mOhm</p> 	0.14 – 2.5	09 33 024 2616	09 33 024 2716	 <p>1) Distance for contact max. 21 mm</p>
<p>Han® ESS, Cage-clamp terminal, silver plated contacts, contact resistance ≤3 mOhm</p>  <p>two terminals per contact</p>	0.14 – 2.5	09 33 024 2672	09 33 024 2772	 <p>1) Distance for contact max. 21 mm</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>M</p> </div> <div style="text-align: center;">  <p>F</p> </div> </div> <p>Contact arrangement (view from termination side)</p>  <p>Panel cut out</p>

Number of contacts

32+

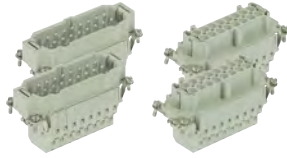
500 V  
16 A

Han  
E/EE

Identification	Wire cross section (mm <sup>2</sup> )	Part number		Drawing Dimensions in mm
		male	female	
<p>Han® ES, Cage-clamp terminal, 1 - 16, silver plated contacts, contact resistance ≤3 mOhm</p> <p>Please order two inserts for a complete assembly!</p>	0.14 – 2.5	09 33 016 2616	09 33 016 2716	<p>1) Distance for contact max. 21 mm</p>
<p>Han® ES, Cage-clamp terminal, 17 - 32, silver plated contacts, contact resistance ≤3 mOhm</p> <p>Please order two inserts for a complete assembly!</p>	0.14 – 2.5	09 33 016 2626	09 33 016 2726	<p>1) Distance for contact max. 21 mm</p> <p>M F</p> <p>Contact arrangement (view from termination side)</p> <p>Panel cut out</p>

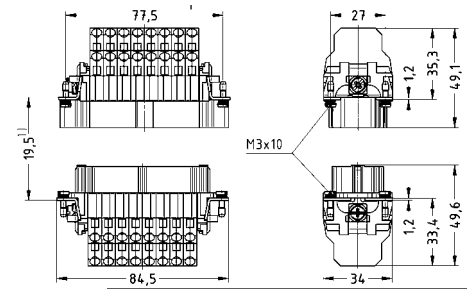
Identification	Wire cross section (mm <sup>2</sup> )	Part number		Drawing Dimensions in mm
		male	female	

Han® ESS,  
Cage-clamp terminal,  
silver plated contacts,  
contact resistance ≤3 mOhm

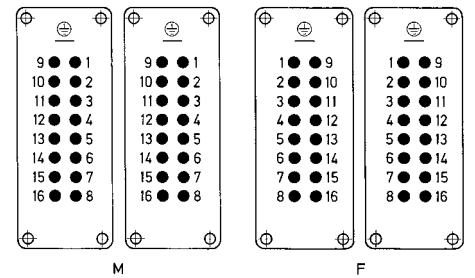


Please order two inserts for a complete assembly!

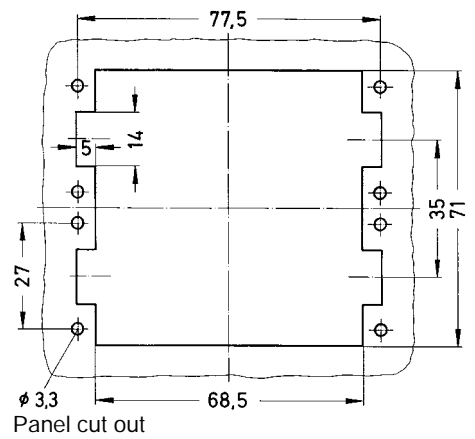
0.14 – 2.5	09 33 016 2672	09 33 016 2772
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1) Distance for contact max. 21 mm



Contact arrangement (view from termination side)



Han  
E/EE

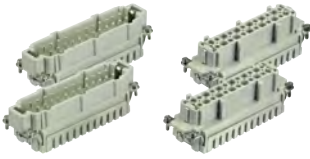
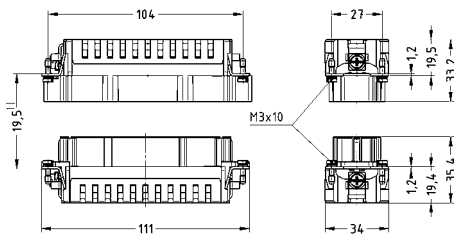
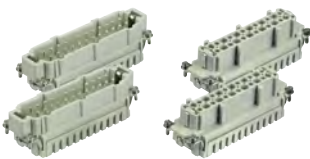
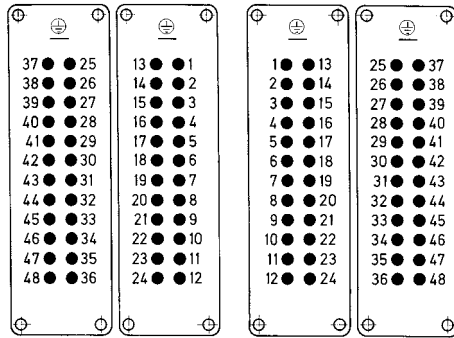
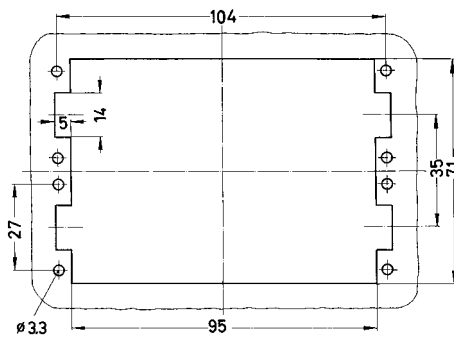


Number of contacts

48+

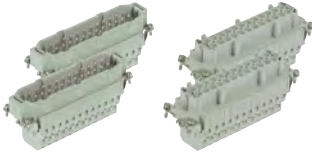
500 V  
16 A

Han  
E/EE

Identification	Wire cross section (mm <sup>2</sup> )	Part number		Drawing Dimensions in mm
		male	female	
<p>Han® ES, Cage-clamp terminal, 1 - 24, silver plated contacts, contact resistance ≤3 mOhm</p>  <p>Please order two inserts for a complete assembly!</p>	0.14 - 2.5	09 33 024 2616	09 33 024 2716	 <p>1) Distance for contact max. 21 mm</p>
<p>Han® ES, Cage-clamp terminal, 25 - 48, silver plated contacts, contact resistance ≤3 mOhm</p>  <p>Please order two inserts for a complete assembly!</p>	0.14 - 2.5	09 33 024 2626	09 33 024 2726	 <p>Contact arrangement (view from termination side)</p>  <p>Panel cut out</p>

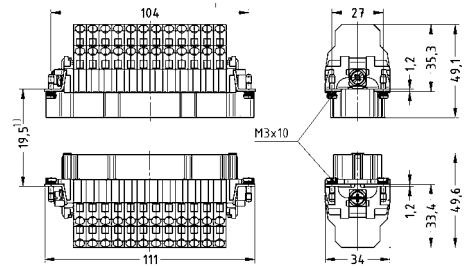
Identification	Wire cross section (mm <sup>2</sup> )	Part number		Drawing Dimensions in mm
		male	female	

Han® ESS,  
Cage-clamp terminal,  
silver plated contacts,  
contact resistance ≤3 mOhm

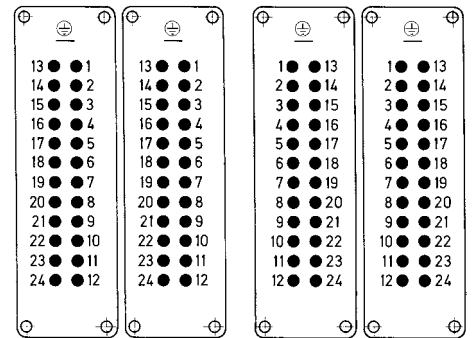


Please order two inserts for a complete assembly!

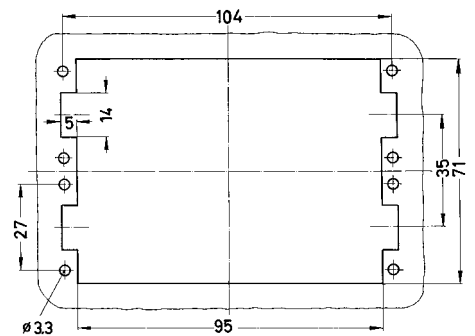
0.14 – 2.5      09 33 024 2672      09 33 024 2772



1) Distance for contact max. 21 mm



Contact arrangement (view from termination side)



Panel cut out

Han  
E/EE