

Han A®

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Han® 3 A housing with fixed cover



Specifications

DIN VDE 0627
DIN VDE 0110
DIN EN 61 984

Approvals



Inserts

Number of contacts 3, 4, 10, 16, 32 (2 x 16) + PE

Electrical data acc. to DIN EN 61 984

| | | | | |
|---------------------------------------|------|-----------|------|---|
| Han® 3 A, 4 A | 10 A | 230/400 V | 4 kV | 3 |
| Working current | | | | |
| Working voltage conductor – ground | | | | |
| Working voltage conductor – conductor | | | | |
| Rated impulse voltage | | | | |
| Pollution degree or | 10 A | 250 V | 4 kV | 3 |

| | | | | |
|--|------|-----------|------|---|
| Han® 10 A, 16 A | 16 A | 250 V | 4 kV | 3 |
| Working current | | | | |
| Working voltage | | | | |
| Rated impulse voltage | | | | |
| Pollution degree – Pollution degree 2 also | 16 A | 230/400 V | 4 kV | 2 |

| | |
|---|----------------------|
| Working voltage acc. to UL/CSA | 600 V |
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| 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 |
| - hard-gold plated | 2 µm Au over 3 µm Ni |
| Contact resistance | ≤ 1 mΩ |
| Crimp terminal - mm ² | 0.5 - 4.0 mm ² |
| - AWG | 20 - 12 |
| Screw terminal | |
| - mm ² | 1.0 - 2.5 mm ² |
| - AWG | 18 - 14 |
| - Tightening/test torque | 0.5 Nm Han 10/16 A 0.25 Nm Han 3/ 4 A |

Hoods/Housings thermoplastic Han® 3 A / 4 A

| | |
|--|------------------------|
| Material | Polycarbonate RAL 7032 |
| Locking element | Polyamide RAL 7032 |
| 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 / 67 |

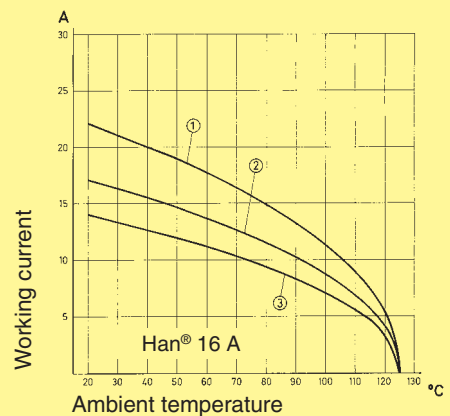
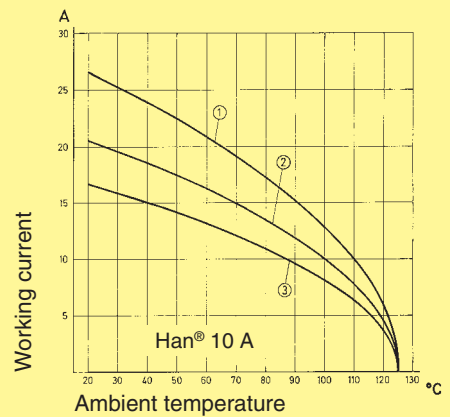
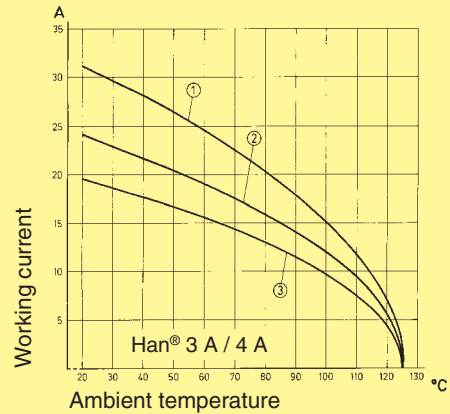
Hoods/Housings metal

| | |
|--|--|
| Material Han® 3 A / 4 A | die cast zinc |
| Material Han® 10 A / 16 A | die cast aluminium |
| Locking element Han® 3 A / 4 A | steel, zinc plated |
| Locking element Han® 10 A / 16 A | Han-Easy Lock® |
| Hoods/Housings seal | NBR |
| Limiting temperatures | - 40 °C / +125 °C |
| Degree of protection acc. to DIN EN 60 529 for coupled connector | |
| Han® 3 A / 4 A | IP 44 IP 65 / 67 with sealing screw 09 20 000 9918 |
| Han® 10 A / 16 A | IP 65 |
| further selection of hoods/housings | chapter 30 / chapter 31 |

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.



- ① Wire gauge: 2.5 mm²
- ② Wire gauge: 1.5 mm²
- ③ Wire gauge: 1.0 mm²

Accessories

| | |
|----------------------------|------------|
| Crimping tools | chapter 99 |
| Cable clamps | chapter 40 |
| sealing screw | chapter 40 |
| Coding of Hoods/Housings | chapter 40 |
| Label acc. to CSA-approval | chapter 40 |
| Test connectors | chapter 40 |

Features

- Advantages of HARAX[®] completely integrated into Han[®] connector
- Time saving rapid termination technology
- Reconnection up to 10 times
- Safety locking system
- Male and female version available
- No special tools required for assembly
- Hoods/housings and inserts thermoplastic see page 01.10
- Hoods/housings thermoplastic RAL 9005

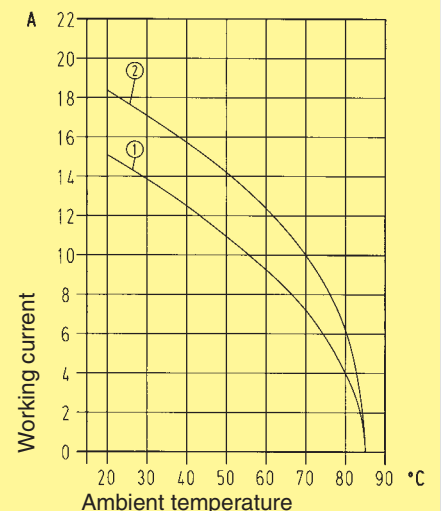
Technical characteristics

| | |
|--------------------------------|--|
| Specifications | DIN EN 61 984 DIN EN 60 352-4 DIN VDE 0110 |
| Approval | |
| Conductor cross section | 0.75 - 1.5 mm ² |
| Cable outside diameter | 6.0 - 9.0 mm |
| Wire diameter | ≤ 2.8 mm |
| Wire of ind. strands | ≥ 0.2 mm |
| Insulation material | PVC |
| Protection degree | IP 65 / 67 |
| Rated current | 10 A |
| Rated voltage | 230 / 400 V |
| Tightening torque of screw cap | 8.0 Nm |
| Limiting temperatures | - 40 °C / 85 °C |

Current carrying capacity

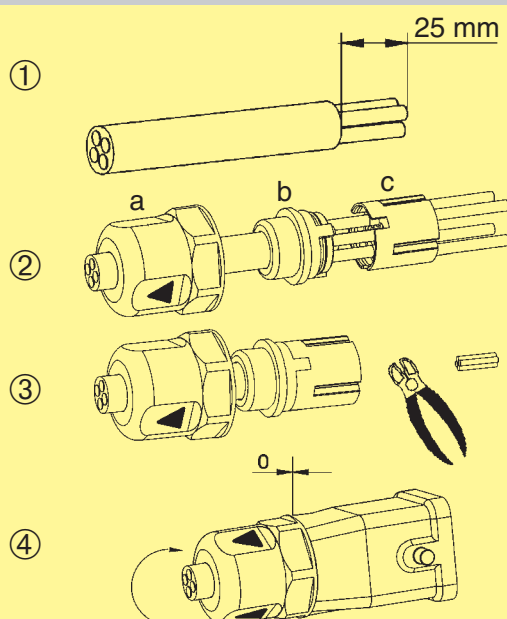
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512-3.



- ① power supply cable: 4 x 0.75 mm²
- ② power supply cable: 4 x 1.5 mm²

Assembly instructions



1. Strip off cable mantle

2. Assemble HARAX[®] elements

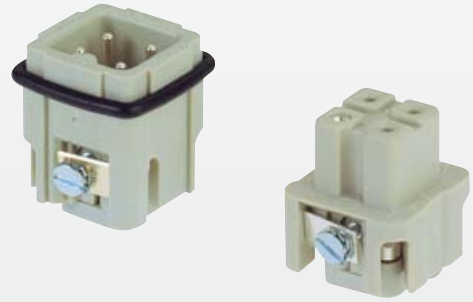
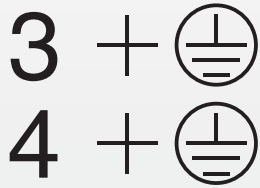
3. Cut off cable ends

4. The nut must be screwed completely down until the notches engage on the contact carrier nut latch

a = Screw cap
b = Sealing
c = Splice ring

Included in delivery:
Screw cap, splice ring, sealing

Number of contacts



Inserts

| Identification | Series | Part No. | | Drawing | Dimensions in mm |
|--|----------|-----------------------|-----------------------|---|------------------|
| | | Male insert (M) | Female insert (F) | | |
| <p>Screw terminal</p> | Han® 3 A | 09 20 003 2611 | | <p>Contact arrangement View from termination side</p> | |
| <p>with HARAX® Termination</p> | Han® 3 A | | 09 20 003 2711 | | |
| <p>with HARAX® Termination</p> | Han® 3 A | 09 20 003 0440 | | | |
| <p>with HARAX® Termination</p> | Han® 3 A | | 09 20 003 0445 | | |
| <p>Hood cable to cable with HARAX® Termination</p> | Han® 3 A | | 09 20 003 0745 | | |
| <p>Screw terminal</p> | Han® 4 A | 09 20 004 2611 | | <p>Contact arrangement View from termination side</p> | |
| <p>Screw terminal</p> | Han® 4 A | | 09 20 004 2711 | | |

Stock items in bold type

| Identification | | Part No. | M | Drawing | Dimensions in mm |
|-----------------------------------|--|--|----|---------|------------------|
| Hoods | Hood side-entry | 19 20 003 1640 | 20 | | |
| | Hood top-entry | 19 20 003 1440 | 20 | | |
| | Protection covers for hoods | 09 20 003 5422¹⁾ 09 20 003 5421²⁾ | | | |
| Housings | Housings bulkhead mounting | 09 20 003 0301 | | | |
| | with fixed cover | 09 20 003 0305¹⁾ | | | |
| | without sealing | 09 20 003 0306²⁾ | | | |
| | with sealing | 09 20 003 0801 | | | |
| | Housing surface mounting | 19 20 003 1250 | 20 | | |
| | 1 side-entry | 19 20 003 1252 | 20 | | |
| | bottom closed | 19 20 003 1150 | 20 | | |
| Housing screw mounting | 19 20 003 1150 | 20 | | | |
| Hood cable to cable | 19 20 003 1750 | 20 | | | |
| Protection covers for housings | 09 20 003 5426¹⁾ 09 20 003 5425²⁾ | | | | |
| for hoods cable to cable | 09 20 003 5428¹⁾ 09 20 003 5427²⁾ | | | | |

Hand
A

¹⁾ for mounted male insert ²⁾ for mounted female insert

Han
A

| Identification | Part No. | M | Drawing | Dimensions in mm |
|--|--|--|-------------------------------|---------------------------------|
| Hoods | Hoods side-entry | grey 19 20 003 0620 | 20 | |
| | | black 19 20 003 0627 | 20 | |
| | Hoods top-entry | grey 19 20 003 0420 | 20 | |
| | | black 19 20 003 0427 | 20 | |
| | Protection covers for hoods | 09 20 003 5442 ¹⁾ 09 20 003 5441 ²⁾ | | |
| | Housings | Housings bulkhead mounting | grey 09 20 003 0320 | — |
| | | black 09 20 003 0327 | — | |
| | | grey 09 20 003 0820 | — | |
| | | black 09 20 003 0827 | — | |
| | | | | |
| Housings surface mounting 1 side-entry | | grey 19 20 003 0220 | 20 | <p>Panel cut out 22 x 22 mm</p> |
| | | black 19 20 003 0227 | 20 | |
| Hoods cable to cable | | grey 19 20 003 0720 | 20 | |
| | | black 19 20 003 0727 | 20 | |
| Protection covers for housings | | A 09 20 003 5407 ¹⁾³⁾ 09 20 003 5408²⁾³⁾⁴⁾ | | |
| | B 09 20 003 5445²⁾ 09 20 003 5446 ¹⁾ 09 20 003 5447 ²⁾³⁾⁴⁾ | | | |
| | C 09 20 003 5448 ¹⁾ 09 20 003 5449 ²⁾⁴⁾ | | | |

¹⁾ for mounted male insert
²⁾ for mounted female insert

³⁾ for metal housings and cable to cable hoods also
⁴⁾ for mounted Han-Brid® male and female insert

Number of contacts

10 +



Inserts

| Identification | Series | Part No. | | Drawing | Dimensions in mm |
|---|--------|-----------------------|-----------------------|---------|------------------|
| | | Male insert (M) | Female insert (F) | | |
| <p>Screw terminal</p> | Han A® | 09 20 010 2612 | 09 20 010 2812 | | Screw terminal |
| <p>Crimp terminal Order crimp contacts separately</p> | Han A® | 09 20 010 3001 | 09 20 010 3101 | | Crimp terminal |

¹⁾ Distance for contact max. 24 mm

Contact arrangement
View from termination side

| | |
|---|---|
| | |
| M | F |

Panel cut out for inserts for use without hoods/housings

| Identification | Wire gauge (mm ²) | Part No. | | Drawing | Dimensions in mm |
|--|--|---|---|---------|---|
| | | Male contacts | Female contacts | | |
| <p>Crimp contacts</p> <p>Power contacts</p> <p>silver plated</p> | 0.5 0.75 1.0 1.5 2.5 3 4 | 09 33 000 6121 09 33 000 6114 09 33 000 6105 09 33 000 6104 09 33 000 6102 09 33 000 6106 09 33 000 6107 | 09 33 000 6220 09 33 000 6214 09 33 000 6205 09 33 000 6204 09 33 000 6202 09 33 000 6206 09 33 000 6207 | | <p>Operating contact Identification</p> |
| <p>gold plated</p> | 0.5 0.75 1.0 1.5 2.5 4.0 | 09 33 000 6122 09 33 000 6115 09 33 000 6118 09 33 000 6116 09 33 000 6123 09 33 000 6119 | 09 33 000 6222 09 33 000 6215 09 33 000 6218 09 33 000 6216 09 33 000 6223 09 33 000 6221 | | |

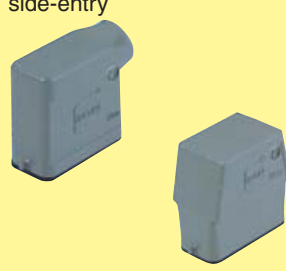
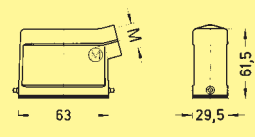
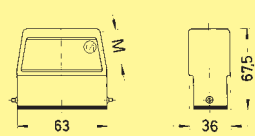

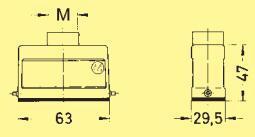
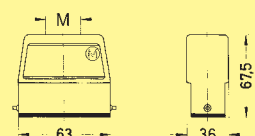

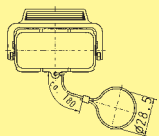

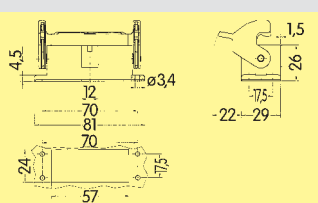
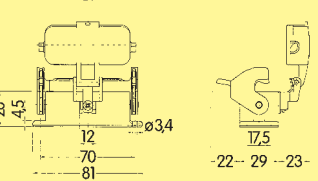

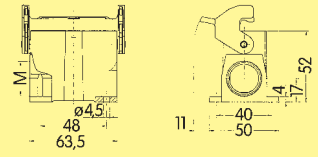
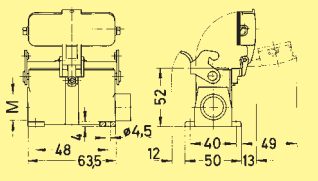

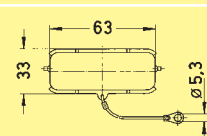
Crimp contact identification

| Identification | Wire gauge | Stripping length |
|----------------|-----------------------------|------------------|
| 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 | 3.0 mm ² AWG 12 | 7.5 mm |
| no groove | 4 mm ² AWG 12 | 7.5 mm |

* on the back crimp collar

Han A

Han
A

| Identification | Part No. | | M | Drawing | Dimensions in mm |
|---|--|-----------------------|--------|---|---|
| | Low construction | High construction | | | |
| Hoods side-entry  | 19 20 010 1540 | | 20 |  | 63 29,5 61,5 |
| | | 19 20 010 0546 | 25 |  | 63 36 67,5 |
| Hoods top-entry  | 19 20 010 1440 | | 20 |  | 63 29,5 47 |
| | | 19 20 010 0446 | 25 |  | 63 36 67,5 |
| Protection covers for hoods  | 09 20 010 5423 | | |  | |
| Housings bulkhead mounting  | 09 20 010 0301 | | — |  | 4,5 12 70 81 70 24 57 17,5 |
| | with thermo- plastic cover 09 20 010 0321 | | — |  | 26 4,5 12 70 81 17,5 22-29-23 |
| Housings surface mounting  | 1 side-entry 19 20 010 0251¹⁾ | | 1 x 25 |  | 4,5 48 63,5 11 40 17-52 |
| | 2 side- entries 19 20 010 0290 | | 2 x 20 |  | 52 48 63,5 12 40 50 13 49 |
| | with thermo- plastic cover 19 20 010 0295 | | 2 x 20 | | |
| Protection covers for housings  | 09 20 010 5425 | | |  | 63 33 ø 5,3 |

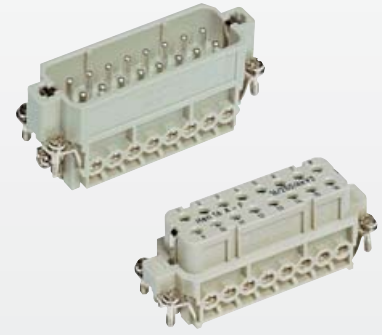
01
16

¹⁾ only metal glands


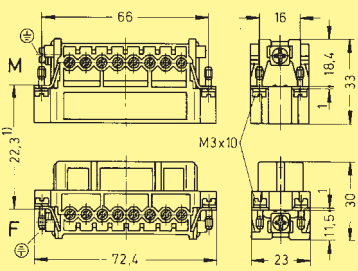

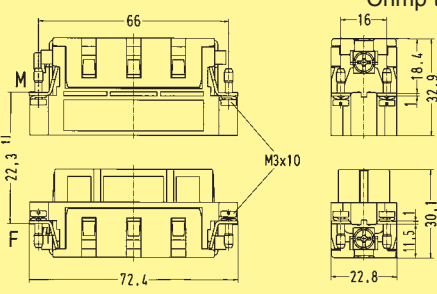
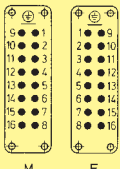
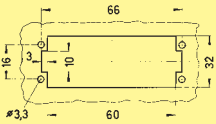
Stock items in bold type



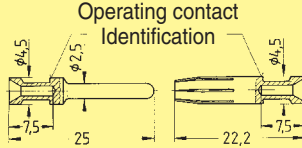
Number of contacts

16 +


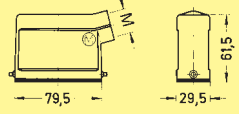
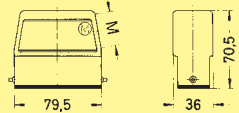

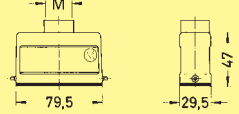
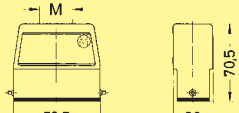

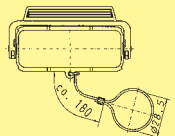

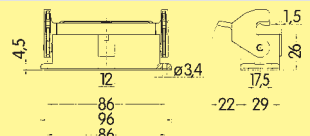
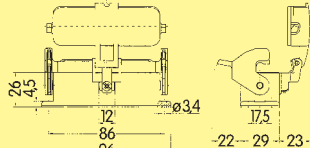

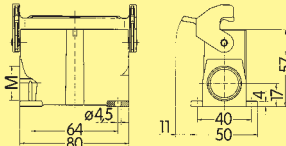
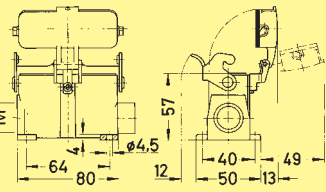
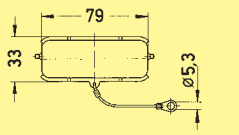

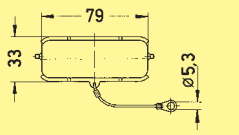


Inserts

| Identification | Series | Part No. | | Drawing | Dimensions in mm |
|---|--------|-----------------------|-----------------------|--|------------------|
| | | Male insert (M) | Female insert (F) | | |
| <p>Screw terminal</p>  | Han A® | 09 20 016 2612 | 09 20 016 2812 |  <p>Screw terminal</p> | |
| <p>Crimp terminal Order crimp contacts separately</p>  | Han A® | 09 20 016 3001 | 09 20 016 3101 |  <p>Crimp terminal</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>  | |

| Identification | Wire gauge (mm ²) | Part No. | | Drawing | Dimensions in mm | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|--|------------------|------------|------------------|-----------|---------------------|--------|-----------|----------------------|--------|----------|-------------------|--------|-----------|---------------------|--------|-----------|---------------------|--------|-------------|---------------------|--------|-----------|-------------------|--------|--|
| | | Male contacts | Female contacts | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Crimp contacts</p> <p>Power contacts</p> <p>silver plated </p> <p>gold plated </p> | <p>0.5</p> <p>0.75</p> <p>1.0</p> <p>1.5</p> <p>2.5</p> <p>3</p> <p>4</p> <p>0.5</p> <p>0.75</p> <p>1.0</p> <p>1.5</p> <p>2.5</p> <p>4.0</p> | <p>09 33 000 6121</p> <p>09 33 000 6114</p> <p>09 33 000 6105</p> <p>09 33 000 6104</p> <p>09 33 000 6102</p> <p>09 33 000 6106</p> <p>09 33 000 6107</p> <p>09 33 000 6122</p> <p>09 33 000 6115</p> <p>09 33 000 6118</p> <p>09 33 000 6116</p> <p>09 33 000 6123</p> <p>09 33 000 6119</p> | <p>09 33 000 6220</p> <p>09 33 000 6214</p> <p>09 33 000 6205</p> <p>09 33 000 6204</p> <p>09 33 000 6202</p> <p>09 33 000 6206</p> <p>09 33 000 6207</p> <p>09 33 000 6222</p> <p>09 33 000 6215</p> <p>09 33 000 6218</p> <p>09 33 000 6216</p> <p>09 33 000 6223</p> <p>09 33 000 6221</p> |  <p>Operating contact Identification</p> <p>Crimp contact identification</p> <table border="1"> <thead> <tr> <th>Identification</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>no groove</td> <td>0.5 mm²</td> <td>AWG 20</td> </tr> <tr> <td>1 groove*</td> <td>0.75 mm²</td> <td>AWG 18</td> </tr> <tr> <td>1 groove</td> <td>1 mm²</td> <td>AWG 18</td> </tr> <tr> <td>2 grooves</td> <td>1.5 mm²</td> <td>AWG 16</td> </tr> <tr> <td>3 grooves</td> <td>2.5 mm²</td> <td>AWG 14</td> </tr> <tr> <td>wide groove</td> <td>3.0 mm²</td> <td>AWG 12</td> </tr> <tr> <td>no groove</td> <td>4 mm²</td> <td>AWG 12</td> </tr> </tbody> </table> <p>* on the back crimp collar</p> | Identification | Wire gauge | Stripping length | no groove | 0.5 mm ² | AWG 20 | 1 groove* | 0.75 mm ² | AWG 18 | 1 groove | 1 mm ² | AWG 18 | 2 grooves | 1.5 mm ² | AWG 16 | 3 grooves | 2.5 mm ² | AWG 14 | wide groove | 3.0 mm ² | AWG 12 | no groove | 4 mm ² | AWG 12 | |
| Identification | Wire gauge | Stripping length | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| no groove | 0.5 mm ² | AWG 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 groove* | 0.75 mm ² | AWG 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 groove | 1 mm ² | AWG 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 grooves | 1.5 mm ² | AWG 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 grooves | 2.5 mm ² | AWG 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| wide groove | 3.0 mm ² | AWG 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| no groove | 4 mm ² | AWG 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Han
A

| Identification | Part No. | | M | Drawing | Dimensions in mm |
|---|--|-----------------------|--------|---|---|
| | Low construction | High construction | | | |
| Hoods side-entry  | 19 20 016 1540 | | 20 |  | 61,5 79,5 29,5 |
| | | 19 20 016 0546 | 25 |  | 70,5 79,5 36 |
| Hoods top-entry  | 19 20 016 1440 | | 20 |  | 47 79,5 29,5 |
| | | 19 20 016 0446 | 25 |  | 70,5 79,5 36 |
| Protection covers for hoods  | 09 20 016 5423 | | |  | |
| Housings bulkhead mounting  | 09 20 016 0301 | | — |  | 1,5 20 17,5 22-29 4,5 12 ø3,4 86 96 86 24 73 17,5 |
| | with thermo- plastic cover 09 20 016 0321 | | — |  | 26 4,5 12 ø3,4 17,5 86 96 22-29 23 |
| Housings surface mounting  | 19 20 016 0251¹⁾ | | 1 x 25 |  | 1,5 57 4 17 40 50 11 64 80 ø4,5 |
| | 19 20 016 0290 | | 2 x 20 |  | 57 49 13 50 40 12 64 80 ø4,5 |
| | with thermo- plastic cover 19 20 016 0295 | | 2 x 20 |  | 79 33 ø5,3 |
| Protection covers for housings  | 09 20 016 5425 | | |  | |

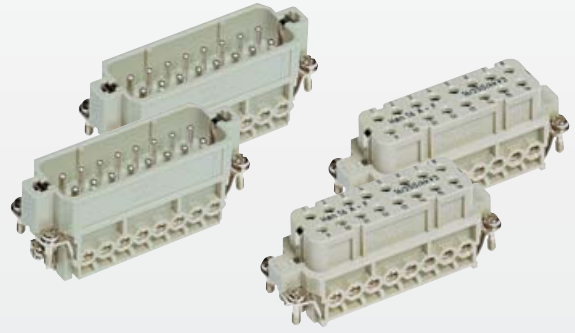
01
18

¹⁾ only metal glands

Stock items in bold type

Number of contacts

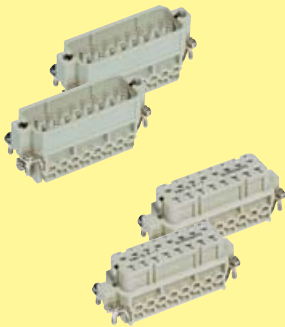
32 +



Inserts

| Identification | Series | Part No. | | Drawing | Dimensions in mm |
|----------------|--------|-----------------|-------------------|---------|------------------|
| | | Male insert (M) | Female insert (F) | | |

Screw terminal



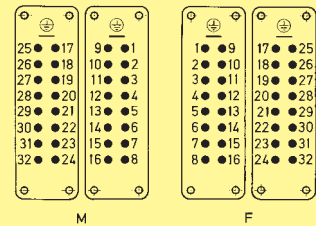
Han A®
1-16
17-32

Male insert (M)
09 20 016 2612
09 20 016 2613

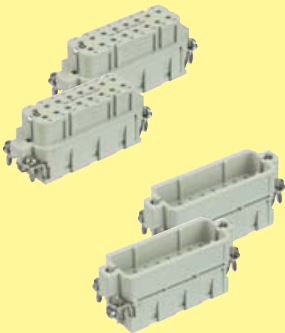
Female insert (F)
09 20 016 2812
09 20 016 2813

Dimensions for inserts see page 01.16

Contact arrangement View from termination side



Crimp terminal
Order crimp contacts separately

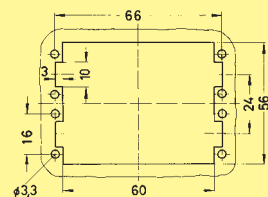


Han A®
1-16
17-32

Male insert (M)
09 20 016 3001
09 20 016 3011

Female insert (F)
09 20 016 3101
09 20 016 3111

Panel cut out for inserts
for use without hoods/housings



| Identification | Wire gauge (mm²) | Part No. | | Drawing | Dimensions in mm |
|----------------|------------------|---------------|-----------------|---------|------------------|
| | | Male contacts | Female contacts | | |

Crimp contacts
Power contacts

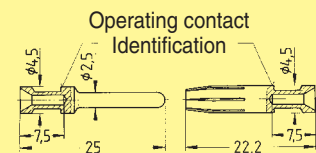
silver plated



0.5
0.75
1.0
1.5
2.5
3
4

Male contacts
09 33 000 6121
09 33 000 6114
09 33 000 6105
09 33 000 6104
09 33 000 6102
09 33 000 6106
09 33 000 6107

Female contacts
09 33 000 6220
09 33 000 6214
09 33 000 6205
09 33 000 6204
09 33 000 6202
09 33 000 6206
09 33 000 6207



gold plated



0.5
0.75
1.0
1.5
2.5
4.0

Male contacts
09 33 000 6122
09 33 000 6115
09 33 000 6118
09 33 000 6116
09 33 000 6123
09 33 000 6119


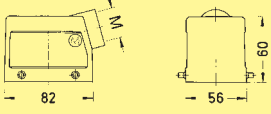
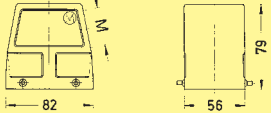

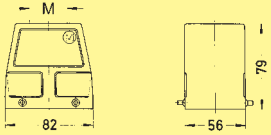



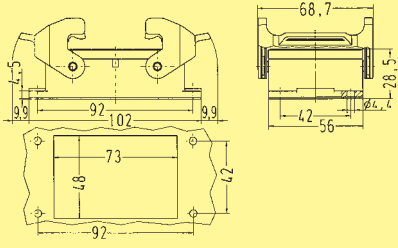

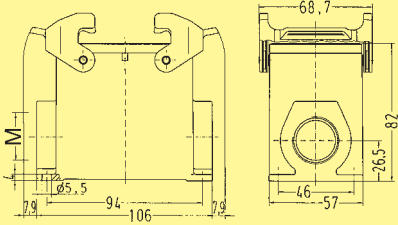


Female contacts
09 33 000 6222
09 33 000 6215
09 33 000 6218
09 33 000 6216
09 33 000 6223
09 33 000 6221

Crimp contact identification

| Identification | Wire gauge | AWG | Stripping length |
|----------------|------------|--------|------------------|
| no groove | 0.5 mm² | AWG 20 | 7.5 mm |
| 1 groove* | 0.75 mm² | AWG 18 | 7.5 mm |
| 1 groove | 1 mm² | AWG 18 | 7.5 mm |
| 2 grooves | 1.5 mm² | AWG 16 | 7.5 mm |
| 3 grooves | 2.5 mm² | AWG 14 | 7.5 mm |
| wide groove | 3.0 mm² | AWG 12 | 7.5 mm |
| no groove | 4 mm² | AWG 12 | 7.5 mm |

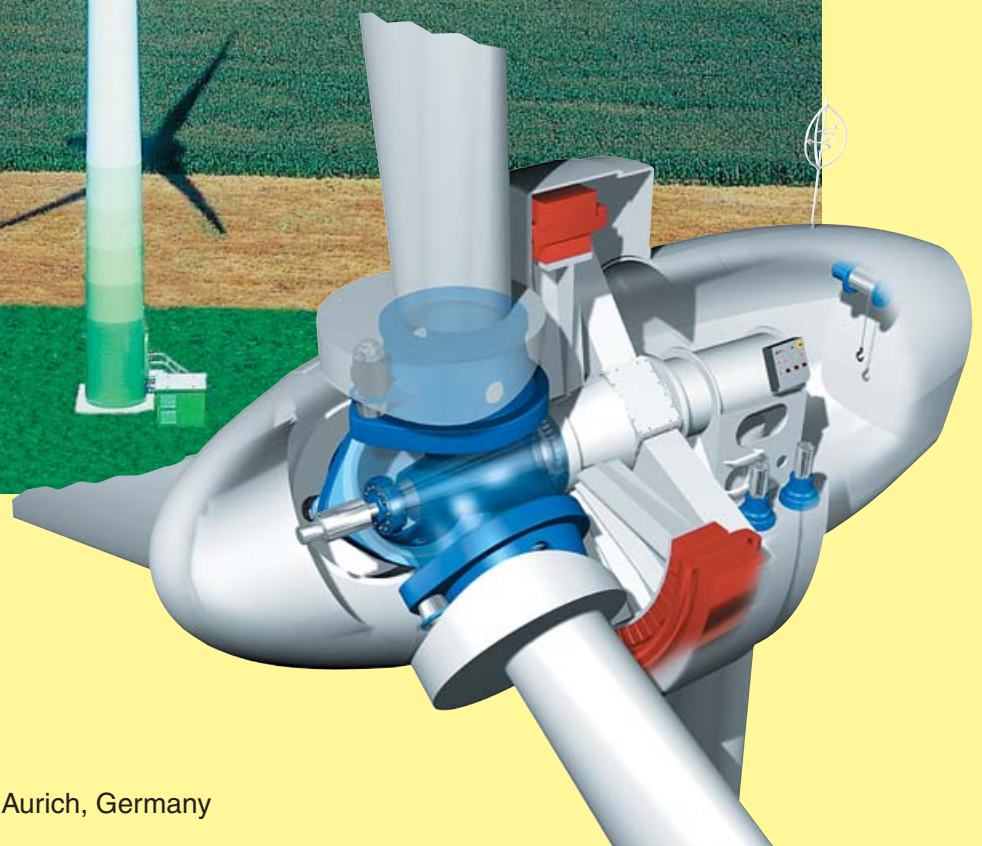
* on the back crimp collar

Han
A

| Identification | Part No. | | | Drawing | Dimensions in mm |
|--|-----------------------|---|----------------------------|---|--|
| | Low construction | High construction | M | | |
| Hoods side-entry  | 19 20 032 1521 | 19 20 032 0527 | 25 |  | 82 56 60 79 |
| | | | 32 |  | |
| Hoods top-entry  | | 19 20 032 0427 | 32 |  | 82 56 79 |
| Protection cover  | | 09 20 032 5401 | — |  | 27 57,3 67 83,3 |
| Housing bulkhead mounting  | 09 20 032 0301 | | — |  | 68,7 28,5 42 56 92 102 9,9 73 48 92 27 |
| Housings surface mounting  | | 19 20 032 0231 19 20 032 0232 19 20 032 0272 | 1 x 25 1 x 32 2 x 32 |  | 68,7 82 76,5 46 57 94 106 9,9 65,5 |
| | 1 side-entry | | | | |
| | 2 side-entries | | | | |
| Protection cover  | | 09 20 032 5405 | |  | 83,3 57,3 |

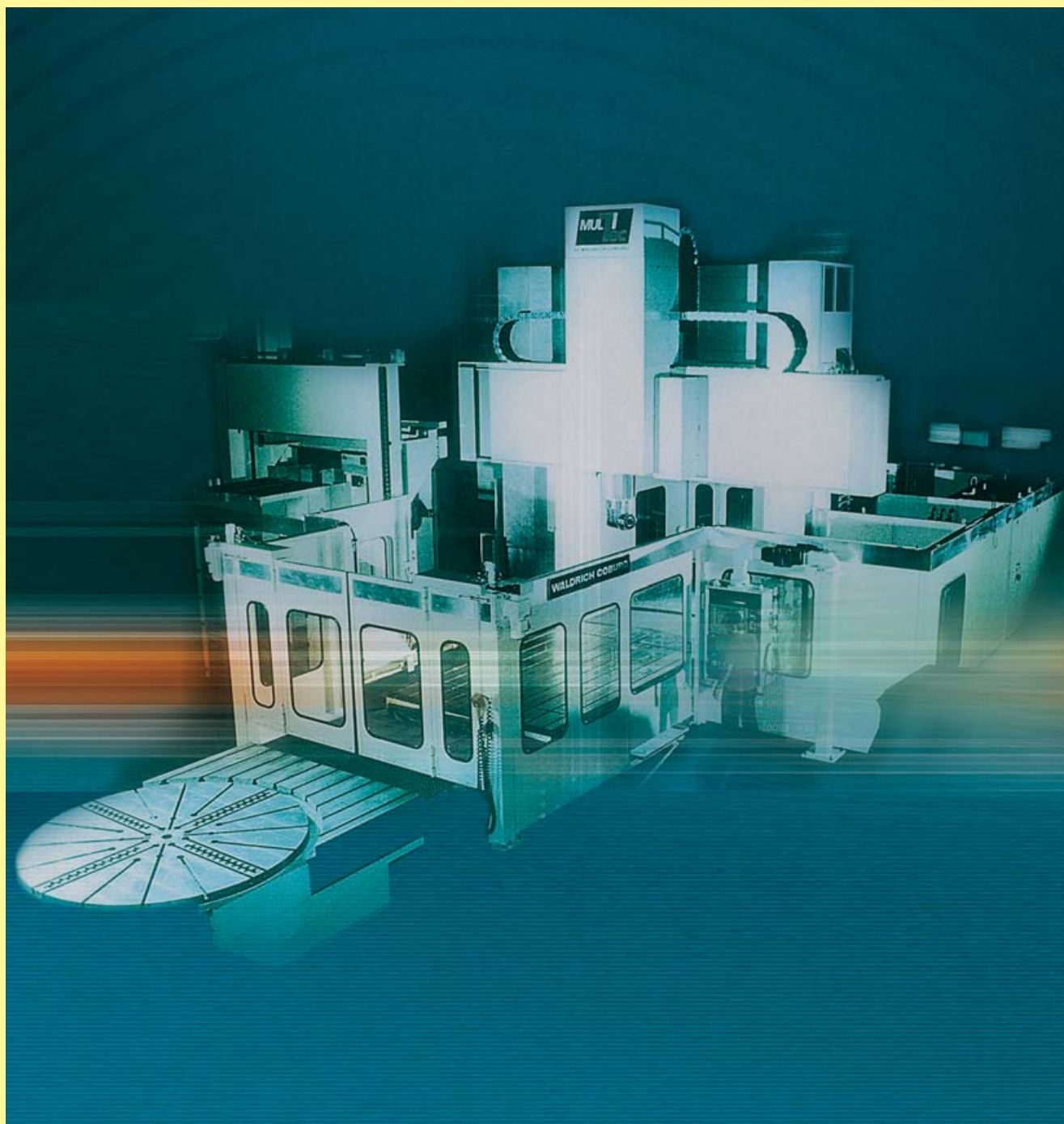
01
20

Stock items in bold type



Wind turbine
ENERCON Electric GmbH, Aurich, Germany

Han
A



MultiTec-Machining Center
Waldrich Coburg, Coburg, Germany