

**Han A<sup>®</sup>**

Page

|   |              |
|---|--------------|
| Technical characteristics Han A <sup>®</sup> .....  | <b>01.10</b> |
| Technical characteristics Han <sup>®</sup> 3 A with <i>HARAX</i> <sup>®</sup> Termination .....   | <b>01.11</b> |
| Han <sup>®</sup> 3 A, 3 A with <i>HARAX</i> <sup>®</sup> Termination / Han <sup>®</sup> 4 A ..... | <b>01.12</b> |
| Han <sup>®</sup> 10 A .....   | <b>01.15</b> |
| Han <sup>®</sup> 16 A .....   | <b>01.17</b> |
| Han <sup>®</sup> 32 A .....   | <b>01.19</b> |

Han<sup>®</sup> 3 A housing with fixed cover



Han  
A

**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  $\geq 10^{10} \Omega$   
Material Polycarbonate  
Limiting temperatures - 40 °C / +125 °C  
Flammability acc. to UL 94 V 0  
Mechanical working life - mating cycles  $\geq 500$

**Contacts**

Material copper alloy  
Surface - hard-silver plated 3  $\mu$ m Ag  
- hard-gold plated 2  $\mu$ m Au over 3  $\mu$ m Ni  
Contact resistance  $\leq 1 \text{ m}\Omega$   
Crimp terminal - mm<sup>2</sup> 0.5 - 4.0 mm<sup>2</sup>  
- AWG 20 - 12  
Screw terminal  
- mm<sup>2</sup> 1.0 - 2.5 mm<sup>2</sup>  
- 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

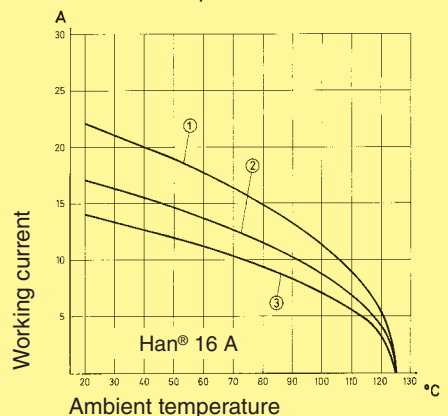
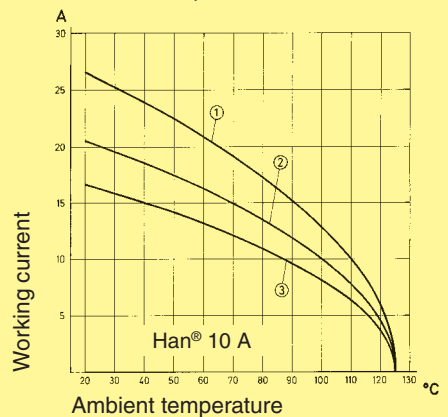
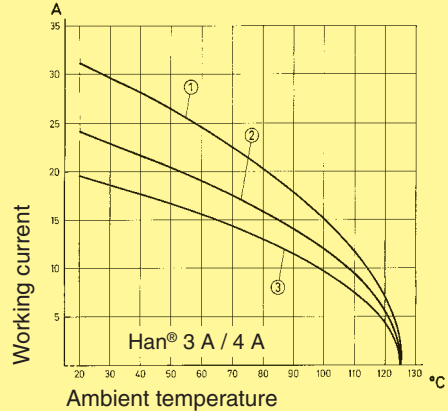
**Hoods/Housings metal**

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 60 512-5.



- ① Wire gauge: 2.5 mm<sup>2</sup>
- ② Wire gauge: 1.5 mm<sup>2</sup>
- ③ Wire gauge: 1.0 mm<sup>2</sup>

**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<sup>®</sup> completely integrated into Han<sup>®</sup> 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

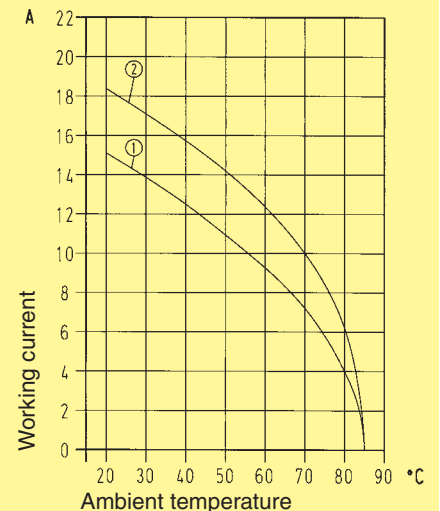
## Technical characteristics

|                                |  |
|--------------------------------|--|
| Specifications                 | DIN EN 61 984<br>DIN EN 60 352-4<br>DIN VDE 0110 |
| Approval                       |  |
| Conductor cross section        | 0.75 - 1.5 mm <sup>2</sup>                       |
| 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

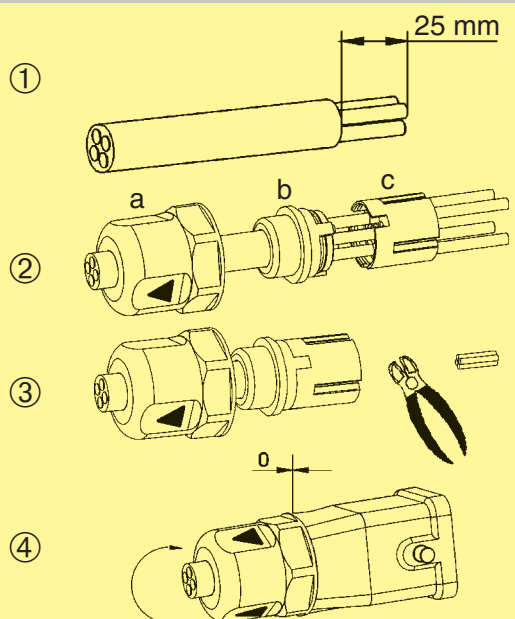
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the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

Control and test procedures according to DIN IEC 60 512-5.



- ① power supply cable: 4 x 0.75 mm<sup>2</sup>
- ② power supply cable: 4 x 1.5 mm<sup>2</sup>

## Assembly instructions

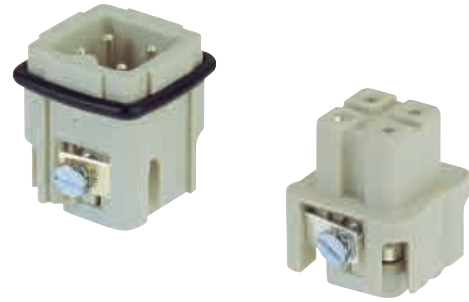
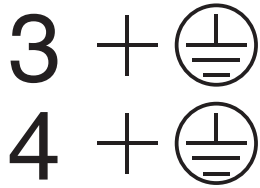


1. Strip off cable mantle
2. Assemble HARAX<sup>®</sup> elements
3. Cut off cable ends
4. The nut must be screwed completely down until the notch-  
es engage on the contact carrier nut latch

- a = Screw cap
- b = Sealing
- c = Splice ring

Included in delivery:  
Screw cap, splice ring, sealing

Number of contacts



Inserts

Han  
A

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



Han  
A

| Identification                               |                                | Part No.   | M  | Drawing | Dimensions in mm |  |
|--|--------------------------------|--|--|---------|------------------|--|
| Hoods  | Hoods<br>side-entry            | grey<br>19 20 003 0620   | 20   |         |                  |  |
|  |                                | black<br>19 20 003 0627  | 20   |         |                  |  |
|  | Hoods<br>top-entry             | grey<br><b>19 20 003 0420</b>  | 20   |         |                  |  |
|  |                                | black<br>19 20 003 0427  | 20   |         |                  |  |
|  | Protection covers<br>for hoods |  | 09 20 003 5442 <sup>1)</sup><br>09 20 003 5441 <sup>2)</sup> |         |                  |  |
|  | Housings                       | Housings<br>bulkhead mounting  | grey<br><b>09 20 003 0320</b>                                | —       |                  |  |
| black<br><b>09 20 003 0327</b>               |                                |  | —  |         |                  |  |
| grey<br><b>09 20 003 0820</b>                |                                |  | —  |         |                  |  |
| black<br><b>09 20 003 0827</b>               |                                |  | —  |         |                  |  |
| Housings<br>surface mounting<br>1 side-entry |                                | grey<br><b>19 20 003 0220</b>  | 20   |         |                  |  |
|  |                                | black<br><b>19 20 003 0227</b>   | 20   |         |                  |  |
| Hoods<br>cable to cable                      |                                | grey<br><b>19 20 003 0720</b>  | 20   |         |                  |  |
|  |                                | black<br>19 20 003 0727  | 20   |         |                  |  |
| Protection covers<br>for housings            |                                | A 09 20 003 5407 <sup>1)3)</sup><br><b>09 20 003 5408<sup>2)3)4)</sup></b>                               |  |         |                  |  |
|  |                                | B <b>09 20 003 5445<sup>2)</sup></b><br>09 20 003 5446 <sup>1)</sup><br>09 20 003 5447 <sup>2)3)4)</sup> |  |         |                  |  |
| for hoods cable to cable                     |                                | C 09 20 003 5448 <sup>1)</sup><br>09 20 003 5449 <sup>2)4)</sup>   |  |         |                  |  |

<sup>1)</sup> for mounted male insert  
<sup>2)</sup> for mounted female insert

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

Number of contacts

10 +




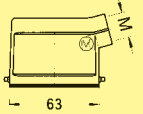
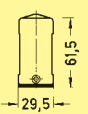
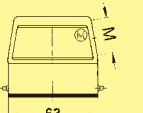
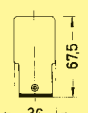

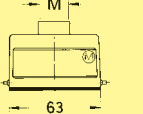

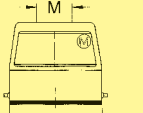
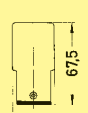

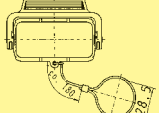

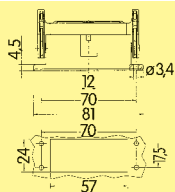
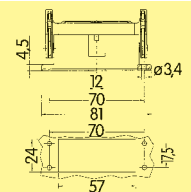
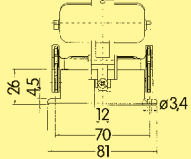
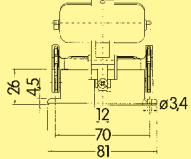

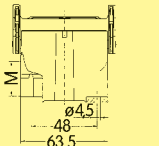
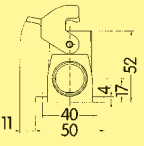
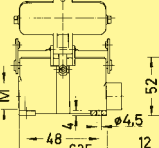
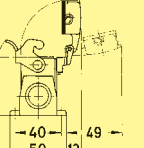

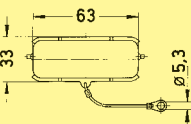
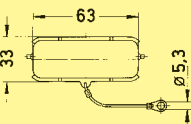
Inserts

| Identification  | Series | Part No.              |                       | Drawing   | Dimensions in mm |
|---|--------|-----------------------|-----------------------|---|------------------|
|   |        | Male insert (M)       | Female insert (F)     |   |                  |
| <p>Screw terminal</p>                                     | Han A® | <b>09 20 010 2612</b> | <b>09 20 010 2812</b> |   | Screw terminal   |
| <p>Crimp terminal<br/>Order crimp contacts separately</p> | Han A® | <b>09 20 010 3001</b> | <b>09 20 010 3101</b> | <p>1) Distance for contact max. 24 mm</p> <p>Contact arrangement<br/>View from termination side</p> <p>Panel cut out for inserts<br/>for use without hoods/housings</p> | Crimp terminal   |

| Identification                           | Wire gauge (mm²) | Part No.              |                       | Drawing   | Dimensions in mm |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|--|------------------|-----------------------|-----------------------|---|------------------|------------|------------------|-----------|---------------|-----------|--------|-----------|---------|--------|--------|-----------|----------|--------|--------|----------|-------|--------|--------|-----------|---------|--------|--------|-----------|---------|--------|--------|-------------|---------|--------|--------|-----------|-------|--------|--------|--|
|  |                  | Male contacts         | Female contacts       |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
| <p>Crimp contacts<br/>Power contacts</p> |                  |                       |                       |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
| <p>silver plated </p>                    | 0.14-0.37        | <b>09 33 000 6127</b> | <b>09 33 000 6227</b> | <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>0,14-0,37 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>3.0 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> <p>* on the back crimp collar</p> | Identification   | Wire gauge | Stripping length | no groove | 0,14-0,37 mm² | AWG 26-22 | 7,5 mm | 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 |  |
| Identification                           | Wire gauge       | Stripping length      |                       |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
| no groove                                | 0,14-0,37 mm²    | AWG 26-22             | 7,5 mm                |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
| 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                |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 0.5              | <b>09 33 000 6121</b> | <b>09 33 000 6220</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 0.75             | <b>09 33 000 6114</b> | <b>09 33 000 6214</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 1.0              | <b>09 33 000 6105</b> | <b>09 33 000 6205</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 1.5              | <b>09 33 000 6104</b> | <b>09 33 000 6204</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 2.5              | <b>09 33 000 6102</b> | <b>09 33 000 6202</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 3                | <b>09 33 000 6106</b> | <b>09 33 000 6206</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 4                | <b>09 33 000 6107</b> | <b>09 33 000 6207</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 0.14-0.37        | <b>09 33 000 6117</b> | <b>09 33 000 6217</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 0.5              | <b>09 33 000 6122</b> | <b>09 33 000 6222</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 0.75             | <b>09 33 000 6115</b> | <b>09 33 000 6215</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 1.0              | <b>09 33 000 6118</b> | <b>09 33 000 6218</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 1.5              | <b>09 33 000 6116</b> | <b>09 33 000 6216</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 2.5              | <b>09 33 000 6123</b> | <b>09 33 000 6223</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |
|  | 4.0              | <b>09 33 000 6119</b> | <b>09 33 000 6221</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |

Han A

Han  
A

| Identification  | Part No.   |                       | M      | Drawing   | Dimensions in mm  |
|---|--|-----------------------|--------|---|---|
|   | Low construction                                   | High construction     |        |   |   |
| <b>Hoods</b><br>side-entry<br>                 | <b>19 20 010 1540</b>                              |                       | 20     |    |    |
|   |  | <b>19 20 010 0546</b> | 25     |    |    |
| <b>Hoods</b><br>top-entry<br>                  | <b>19 20 010 1440</b>                              |                       | 20     |    |    |
|   |  | <b>19 20 010 0446</b> | 25     |    |    |
| <b>Protection covers</b><br>for hoods<br>     | <b>09 20 010 5423</b>                              |                       |        |   |   |
| <b>Housings</b><br>bulkhead mounting<br>     | <b>09 20 010 0301</b>                              |                       | —      |  |  |
|   | with thermo-plastic cover<br><b>09 20 010 0321</b> |                       | —      |  |  |
| <b>Housings</b><br>surface mounting<br>      | 1 side-entry<br><b>19 20 010 0251<sup>1)</sup></b> |                       | 1 x 25 |  |  |
|   | 2 side-entries<br>19 20 010 0290                   |                       | 2 x 20 |  |  |
|   | with thermo-plastic cover<br>19 20 010 0295        |                       | 2 x 20 |   |   |
| <b>Protection covers</b><br>for housings<br> | <b>09 20 010 5425</b>                              |                       |        |  |  |

01  
16

<sup>1)</sup> only metal glands


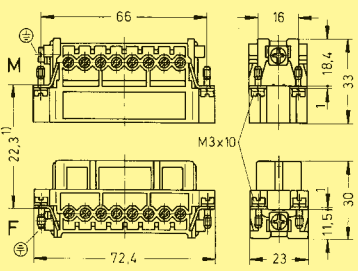

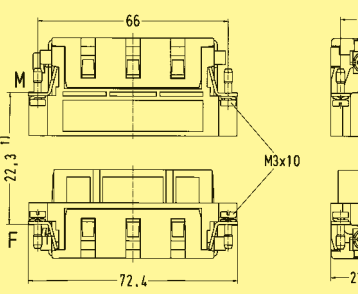
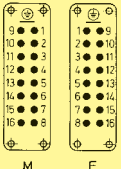
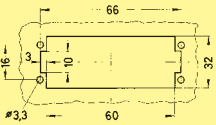
**Stock items in bold type**

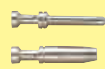

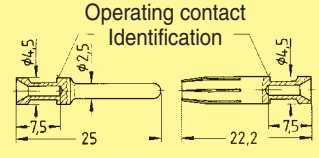
Number of contacts

16 +



Inserts


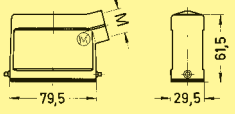
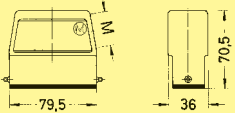

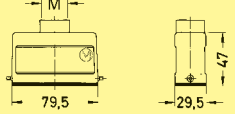
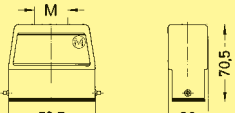

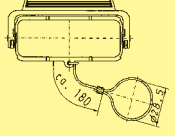

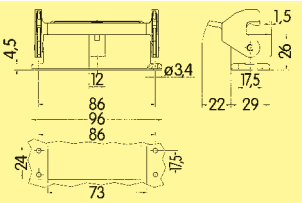
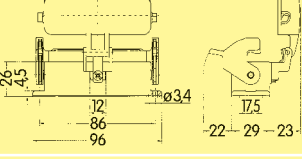

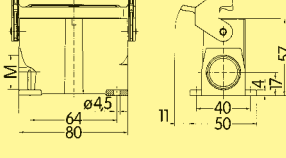
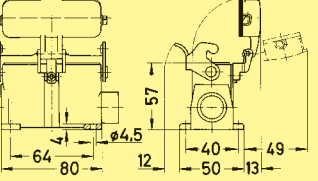
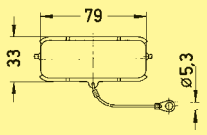

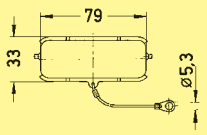
| Identification  | Series | Part No.              |                       | Drawing  | Dimensions in mm |
|---|--------|-----------------------|-----------------------|--|------------------|
|   |        | Male insert (M)       | Female insert (F)     |  |                  |
| <p>Screw terminal</p>                                        | Han A® | <b>09 20 016 2612</b> | <b>09 20 016 2812</b> |  <p>Screw terminal</p>   |                  |
| <p>Crimp terminal<br/>Order crimp contacts separately</p>  | Han A® | <b>09 20 016 3001</b> | <b>09 20 016 3101</b> |  <p>Crimp terminal</p> <p>1) Distance for contact max. 24 mm</p> <p>Contact arrangement<br/>View from termination side</p>  <p>Panel cut out for inserts<br/>for use without hoods/<br/>housings</p>  |                  |

| Identification   | Wire gauge (mm²) | Part No.              |                       | Drawing   | Dimensions in mm |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|--|------------------|-----------------------|-----------------------|---|------------------|------------|------------------|-----------|---------------|-----------|--------|-----------|---------|--------|--------|-----------|----------|--------|--------|----------|-------|--------|--------|-----------|---------|--------|--------|-----------|---------|--------|--------|-------------|---------|--------|--------|-----------|-------|--------|--------|--|--|
|  |                  | Male contacts         | Female contacts       |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
| <p>Crimp contacts<br/>Power contacts</p> <p>silver plated </p> <p>gold plated </p> |                  |                       |                       |  <p>Operating contact<br/>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>0,14-0,37 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>3,0 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> <p>* on the back crimp collar</p> | Identification   | Wire gauge | Stripping length | no groove | 0,14-0,37 mm² | AWG 26-22 | 7,5 mm | 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 |  |  |
| Identification   | Wire gauge       | Stripping length      |                       |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
| no groove  | 0,14-0,37 mm²    | AWG 26-22             | 7,5 mm                |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
| 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                |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 0.14-0.37        | <b>09 33 000 6127</b> | <b>09 33 000 6227</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 0.5              | <b>09 33 000 6121</b> | <b>09 33 000 6220</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 0.75             | <b>09 33 000 6114</b> | <b>09 33 000 6214</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 1.0              | <b>09 33 000 6105</b> | <b>09 33 000 6205</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 1.5              | <b>09 33 000 6104</b> | <b>09 33 000 6204</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 2.5              | <b>09 33 000 6102</b> | <b>09 33 000 6202</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 3                | <b>09 33 000 6106</b> | <b>09 33 000 6206</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 4                | <b>09 33 000 6107</b> | <b>09 33 000 6207</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 0.14-0.37        | <b>09 33 000 6117</b> | <b>09 33 000 6217</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 0.5              | <b>09 33 000 6122</b> | <b>09 33 000 6222</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 0.75             | <b>09 33 000 6115</b> | <b>09 33 000 6215</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 1.0              | <b>09 33 000 6118</b> | <b>09 33 000 6218</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 1.5              | <b>09 33 000 6116</b> | <b>09 33 000 6216</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 2.5              | <b>09 33 000 6123</b> | <b>09 33 000 6223</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |
|  | 4.0              | <b>09 33 000 6119</b> | <b>09 33 000 6221</b> |   |                  |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |  |  |

Stock items in bold type

Han A

Han  
A

| Identification  | Part No.   |                       | M      | Drawing   | Dimensions in mm |
|---|--|-----------------------|--------|---|------------------|
|   | Low construction                                       | High construction     |        |   |                  |
| <b>Hoods</b><br>side-entry<br>                 | <b>19 20 016 1540</b>                                  |                       | 20     |    |                  |
|   |  | <b>19 20 016 0546</b> | 25     |    |                  |
| <b>Hoods</b><br>top-entry<br>                  | <b>19 20 016 1440</b>                                  |                       | 20     |    |                  |
|   |  | <b>19 20 016 0446</b> | 25     |    |                  |
| <b>Protection covers</b><br>for hoods<br>     | <b>09 20 016 5423</b>                                  |                       |        |   |                  |
| <b>Housings</b><br>bulkhead mounting<br>     | <b>09 20 016 0301</b>                                  |                       | —      |  |                  |
|   | with thermo-<br>plastic cover<br><b>09 20 016 0321</b> |                       | —      |  |                  |
| <b>Housings</b><br>surface mounting<br>      | <b>19 20 016 0251<sup>1)</sup></b>                     |                       | 1 x 25 |  |                  |
|   | <b>19 20 016 0290</b>                                  |                       | 2 x 20 |  |                  |
|   | with thermo-<br>plastic cover<br><b>19 20 016 0295</b> |                       | 2 x 20 |  |                  |
| <b>Protection covers</b><br>for housings<br> | <b>09 20 016 5425</b>                                  |                       |        |  |                  |

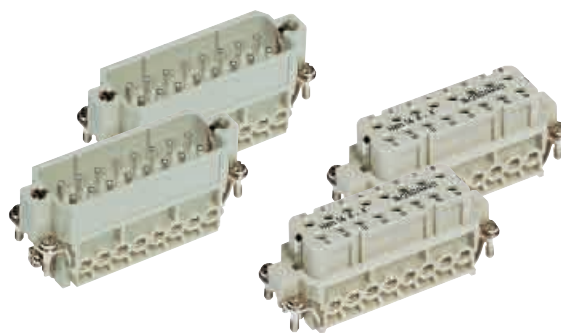
01  
18

<sup>1)</sup> only metal glands

Stock items in bold type

Number of contacts

32 +



Han  
A

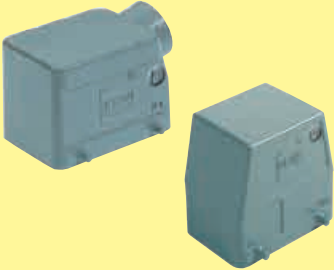
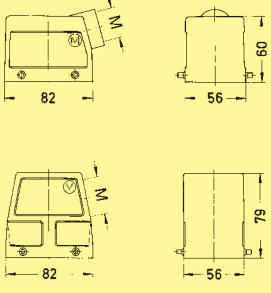

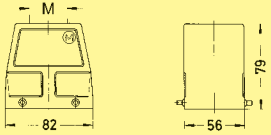

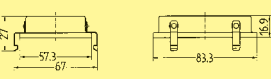

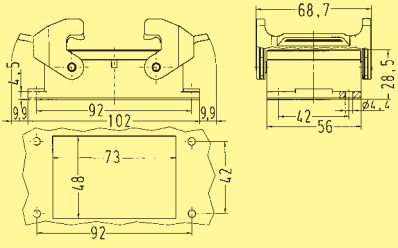

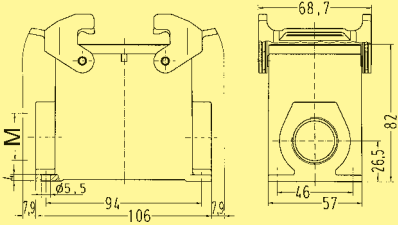


Inserts

| Identification  | Series        | Part No.                                       |  | Drawing  | Dimensions in mm                                      |
|---|---------------|--|--|--|---|
|   |               | Male insert (M)                                | Female insert (F)                              |  |   |
| <p>Screw terminal</p>                                     | Han A®        |  |  | Dimensions for inserts see page 01.16                    | <p>Contact arrangement View from termination side</p> |
|   | 1-16<br>17-32 | <b>09 20 016 2612</b><br><b>09 20 016 2613</b> | <b>09 20 016 2812</b><br><b>09 20 016 2813</b> |  |   |
| <p>Crimp terminal<br/>Order crimp contacts separately</p> | Han A®        |  |  | Panel cut out for inserts for use without hoods/housings |   |
|   | 1-16<br>17-32 | <b>09 20 016 3001</b><br><b>09 20 016 3011</b> | <b>09 20 016 3101</b><br><b>09 20 016 3111</b> |  |   |

| Identification                           | Wire gauge (mm²)  | Part No.   |  | Drawing | Dimensions in mm  |                |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |
|--|---|--|--|---------|---|----------------|------------|------------------|-----------|---------------|-----------|--------|-----------|---------|--------|--------|-----------|----------|--------|--------|----------|-------|--------|--------|-----------|---------|--------|--------|-----------|---------|--------|--------|-------------|---------|--------|--------|-----------|-------|--------|--------|
|  |   | Male contacts  | Female contacts  |         |   |                |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |
| <p>Crimp contacts<br/>Power contacts</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>0,14-0,37 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>3,0 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> | Identification | Wire gauge | Stripping length | no groove | 0,14-0,37 mm² | AWG 26-22 | 7,5 mm | 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 |
| Identification                           | Wire gauge  | Stripping length   |  |         |   |                |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |
| no groove                                | 0,14-0,37 mm²   | AWG 26-22  | 7,5 mm   |         |   |                |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |
| 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   |         |   |                |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |
| <p>silver plated </p>                    | 0.14-0.37<br>0.5<br>0.75<br>1.0<br>1.5<br>2.5<br>3<br>4 | <b>09 33 000 6127</b><br><b>09 33 000 6121</b><br><b>09 33 000 6114</b><br><b>09 33 000 6105</b><br><b>09 33 000 6104</b><br><b>09 33 000 6102</b><br><b>09 33 000 6106</b><br><b>09 33 000 6107</b> | <b>09 33 000 6227</b><br><b>09 33 000 6220</b><br><b>09 33 000 6214</b><br><b>09 33 000 6205</b><br><b>09 33 000 6204</b><br><b>09 33 000 6202</b><br><b>09 33 000 6206</b><br><b>09 33 000 6207</b> |         |   |                |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |
| <p>gold plated </p>                      | 0.14-0.37<br>0.5<br>0.75<br>1.0<br>1.5<br>2.5<br>4.0    | <b>09 33 000 6117</b><br><b>09 33 000 6122</b><br><b>09 33 000 6115</b><br><b>09 33 000 6118</b><br><b>09 33 000 6116</b><br><b>09 33 000 6123</b><br><b>09 33 000 6119</b>                          | <b>09 33 000 6217</b><br><b>09 33 000 6222</b><br><b>09 33 000 6215</b><br><b>09 33 000 6218</b><br><b>09 33 000 6216</b><br><b>09 33 000 6223</b><br><b>09 33 000 6221</b>                          |         |   |                |            |                  |           |               |           |        |           |         |        |        |           |          |        |        |          |       |        |        |           |         |        |        |           |         |        |        |             |         |        |        |           |       |        |        |

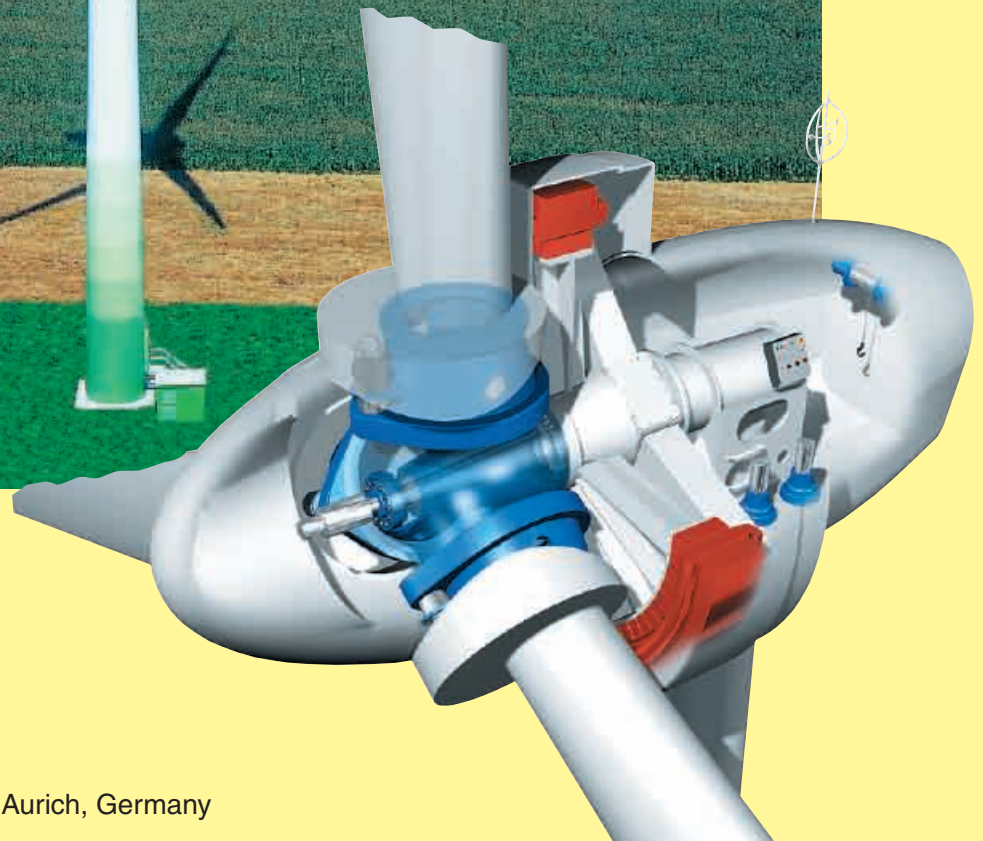
\* on the back crimp collar

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| Identification   | Part No.              |                       |                            | Drawing  | Dimensions in mm |
|--|-----------------------|-----------------------|----------------------------|--|------------------|
|  | Low construction      | High construction     | M                          |  |                  |
| <b>Hoods</b><br>side-entry<br>            | <b>19 20 032 1521</b> | <b>19 20 032 0527</b> | <b>25</b><br><br><b>32</b> |                     |                  |
|  |                       |                       |                            |  |                  |
| <b>Hoods</b><br>top-entry<br>             |                       | <b>19 20 032 0427</b> | <b>32</b>                  |                     |                  |
| <b>Protection cover</b><br>             |                       | <b>09 20 032 5401</b> | <b>—</b>                   |                   |                  |
| <b>Housing</b><br>bulkhead mounting<br> | <b>09 20 032 0301</b> |                       | <b>—</b>                   | <br>Panel cut out |                  |
| <b>Housings</b><br>surface mounting<br> |                       | <b>19 20 032 0231</b> | <b>1 x 25</b>              |                   |                  |
|  |                       | <b>19 20 032 0232</b> | <b>1 x 32</b>              |  |                  |
|  |                       | <b>19 20 032 0272</b> | <b>2 x 32</b>              |  |                  |
| <b>Protection cover</b><br>             |                       | <b>09 20 032 5405</b> | <b>—</b>                   |                   |                  |

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20

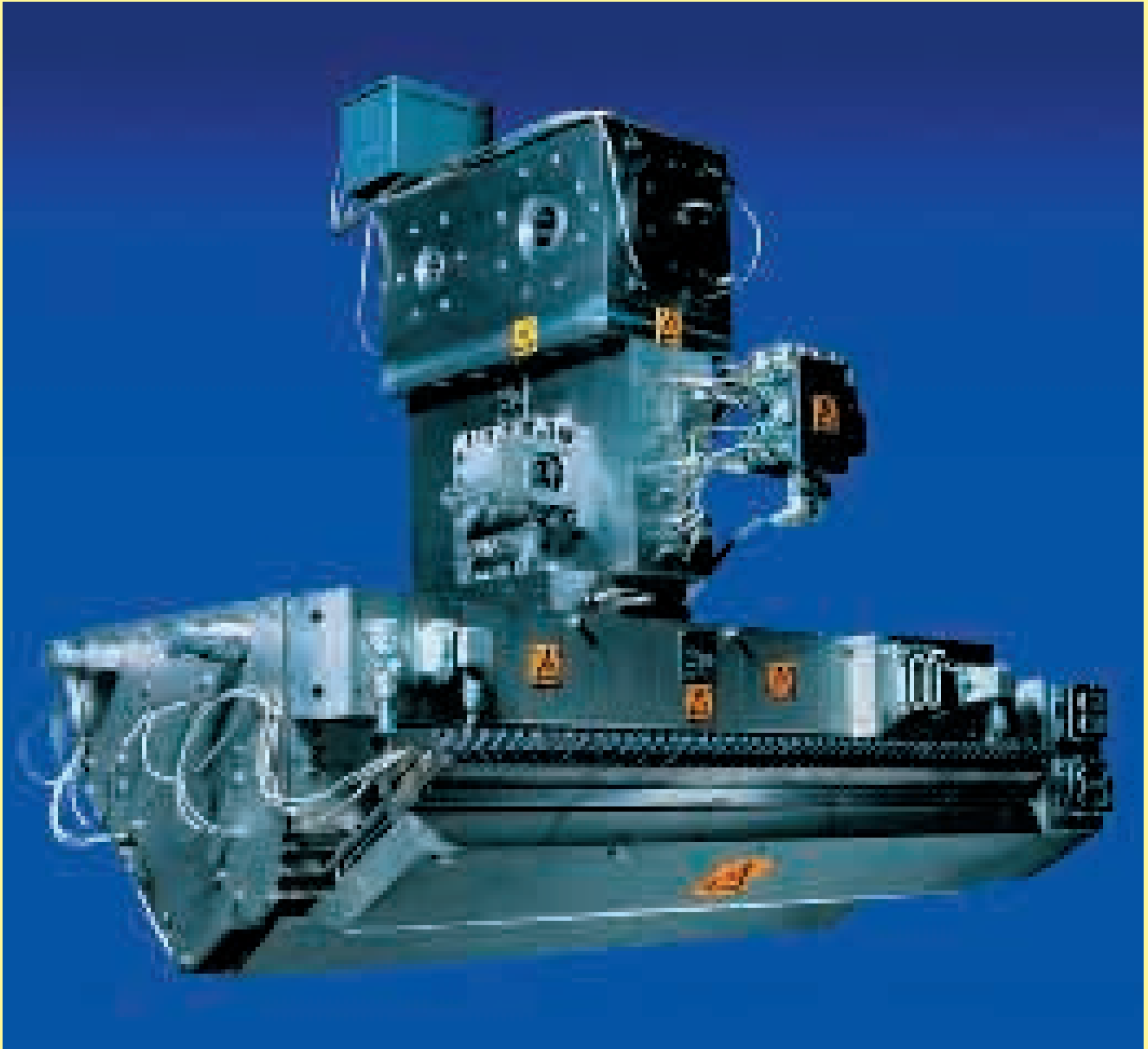
Stock items in bold type



Wind turbine  
ENERCON Electric GmbH, Aurich, Germany

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Biaxially oriented film die. Cloeren Inc., Orange (TX), USA