

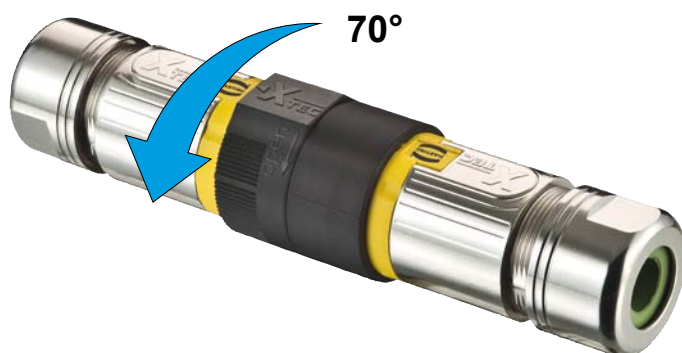
## Description of the Han® X-TEC connector

### Han® X-TEC - the complete circular connector system

Han® X-TEC is a complete new circular connector system in two sizes

- Han® X-TEC 23
- Han® X-TEC 32

The brand new feature of this connector series offers quick locking of connector and receptacle. Just a 70° turn of the locking element and the system is locked save and tight.



Easy and time saving selection of your favourite connector.

One part number contains insert with housing and if required the suitable cable gland as well. The female connector includes the removable locking element.

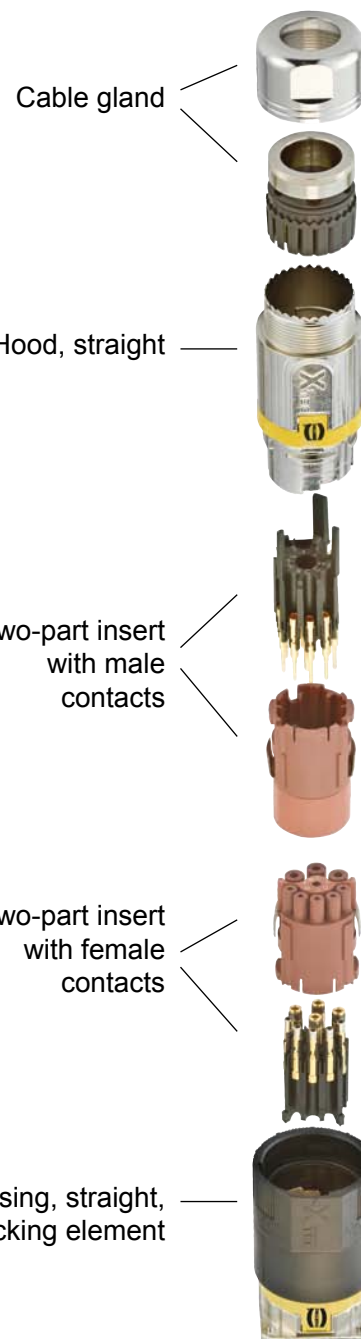
Han® X-TEC 23 is available with crimp termination:

- |                   |                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------|
| Power connector:  | <ul style="list-style-type: none"> <li>• 3 power contacts plus 5 signal contacts</li> </ul>          |
| Signal connector: | <ul style="list-style-type: none"> <li>• 12 signal contacts</li> <li>• 17 signal contacts</li> </ul> |

Han® X-TEC 32 is available with crimp termination:

- |                  |                                                                                                                                                |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Connector: | <ul style="list-style-type: none"> <li>• 3 power contacts plus 5 signal contacts</li> <li>• 6 power contacts plus 4 signal contacts</li> </ul> |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

### Assembly details



## Features

- Available in metal and plastic housings
- Fast locking system saves time and ensures tight connection
- Easy to operate
- Power and signal connectors suit for Servo and Three-phase drives
- Standardized system cable solutions reduce assembling time and costs
- Power and signal contacts combined in one connector
- Reliable crimp termination

## Technical characteristics

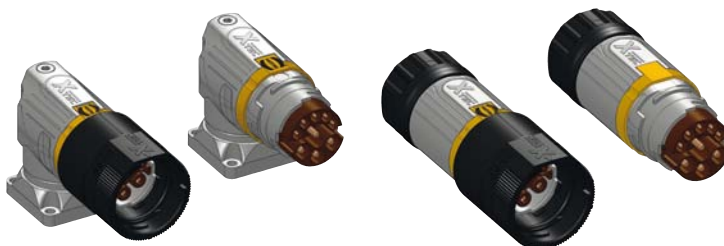
|                                                              |                                                                                             |                                              |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------|
| Specifications                                               | DIN EN 60 664-1<br>DIN EN 61 984                                                            |                                              |
| Inserts                                                      |                                                                                             |                                              |
| Number of contacts                                           | 3 / 5 +  |                                              |
|                                                              | <u>Power contacts</u>                                                                       | <u>Signal contacts</u>                       |
| Electrical data acc. to DIN EN 61 984                        | <b>16 A 630 V 6 kV 3</b>                                                                    | <b>7 A 63 V 0.8 kV 3</b>                     |
| Rated current                                                | 16 A                                                                                        | 7 A                                          |
| Rated voltage                                                | 630 V                                                                                       | 63 V                                         |
| Rated impulse voltage                                        | 6 kV                                                                                        | 0.8 kV                                       |
| Pollution degree                                             | 3                                                                                           | 3                                            |
| Rated voltage acc. to UL/CSA                                 | 600 V                                                                                       | 63 V                                         |
| Material                                                     | Polyamid                                                                                    |                                              |
| Limiting temperatures                                        | -20 °C ... +125 °C                                                                          |                                              |
| Flammability accd. to UL 94                                  | V 0                                                                                         |                                              |
| Mechanical working life                                      | ≥ 500 mating cycles                                                                         |                                              |
| Contacts                                                     | <u>Power contacts</u>                                                                       | <u>Signal contacts</u>                       |
| Pin diameter                                                 | 2 mm                                                                                        | 1 mm                                         |
| Material                                                     | Copper alloy                                                                                | Copper alloy                                 |
| Surface                                                      | hard-gold plated                                                                            | hard-gold plated                             |
| Contact resistance                                           | ≤ 3 mΩ                                                                                      | ≤ 5 mΩ                                       |
| Crimp terminal                                               |                                                                                             |                                              |
| - mm <sup>2</sup>                                            | 0.35 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| - AWG                                                        | 22 ... 12                                                                                   | 26 ... 16                                    |
| Housings                                                     | <u>Metal</u>                                                                                | <u>Plastic</u>                               |
| Material                                                     | Die cast zinc alloy                                                                         | Polyamide                                    |
| Surface                                                      | Nickel                                                                                      | -                                            |
| Locking element                                              | Polyamide                                                                                   | Polyamide                                    |
| Sealing                                                      | FPM                                                                                         | FPM                                          |
| Limiting temperatures                                        | -20 °C ... +125 °C                                                                          | -20 °C ... +125 °C                           |
| Degree of protection acc. to DIN EN 60529 in locked position | IP 67                                                                                       | IP 67                                        |
| Cable Ø                                                      | 7.5 mm ... 17 mm                                                                            | 7.5 mm ... 17 mm                             |

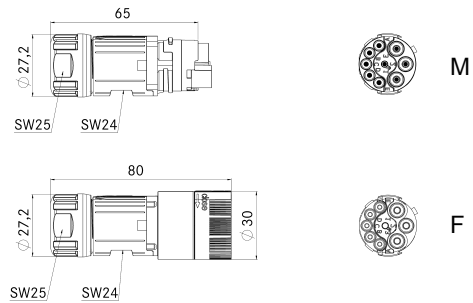
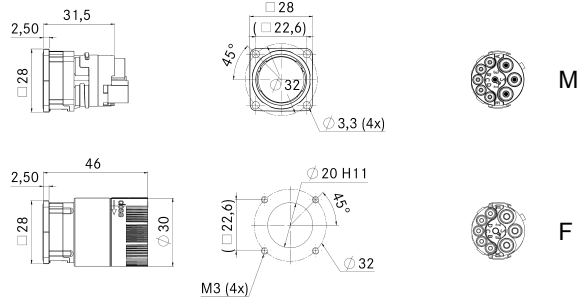
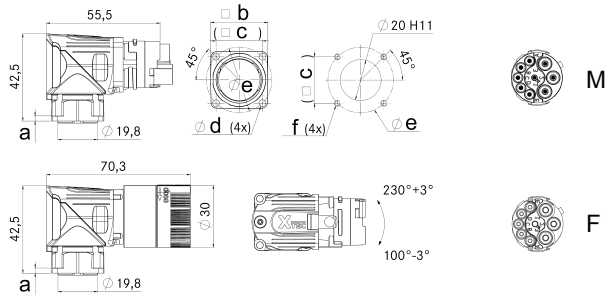
# Han® X-TEC 23 with Metal Hoods/Housings



Number of contacts

3 / 5 +



| Identification                                                                                                                                                              |  | Cable diameter<br>(mm)    | Part-Number                                        |                                                    | Drawings                                                                             | Dimensions in mm |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|----------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------|------------------|--|
|                                                                                                                                                                             |  |                           | Male insert (M)                                    | Female insert (F)                                  |                                                                                      |                  |  |
| Connector<br>straight<br><br>crimp terminal<br><br>                                        |  | 7.5-12<br>9.5-14<br>14-17 | 09 15 408 2101<br>09 15 408 2102<br>09 15 408 2103 | 09 15 408 2201<br>09 15 408 2202<br>09 15 408 2203 |    |                  |  |
|                                                                                                                                                                             |  |                           |                                                    |                                                    |                                                                                      |                  |  |
| Receptacle<br>straight<br><br>crimp terminal<br><br>                                     |  | -                         | 09 15 408 2501                                     | 09 15 408 2601                                     |   |                  |  |
|                                                                                                                                                                             |  |                           |                                                    |                                                    |                                                                                      |                  |  |
| Receptacle<br>angled<br><br>crimp terminal<br>flange 25x25 mm<br>flange 28x28 mm<br><br> |  | -<br>-                    | 09 15 408 2505<br>09 15 408 2506                   | 09 15 408 2605<br>09 15 408 2606                   |  |                  |  |
|                                                                                                                                                                             |  |                           |                                                    |                                                    |                                                                                      |                  |  |
| Order crimp contacts separately                                                                                                                                             |  |                           |                                                    |                                                    |                                                                                      |                  |  |

| Wire gauge<br>(mm²)                                                                                                                            |                     | Part-Number                      |                                  | Drawings |  | Dimensions in mm |  |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|----------------------------------|----------|--|------------------|--|
|                                                                                                                                                |                     | Male insert (M)                  | Female insert (F)                |          |  |                  |  |
| Crimp contacts<br><br>gold plated<br>contact Ø 1 mm<br><br> | 0.14-1.0<br>0.5-1.5 | 09 15 400 6121<br>09 15 400 6122 | 09 15 400 6221<br>09 15 400 6222 |          |  |                  |  |
|                                                                                                                                                |                     |                                  |                                  |          |  |                  |  |
| contact Ø 2 mm<br><br>                                      | 0.35-2.5<br>2.5-4.0 | 09 15 400 6124<br>09 15 400 6125 | 09 15 400 6224<br>09 15 400 6225 |          |  |                  |  |
|                                                                                                                                                |                     |                                  |                                  |          |  |                  |  |

# Han® X-TEC 23 with Plastic Hoods/Housings



Number of contacts

3 / 5 +



| Identification                                             |  | Cable diameter<br>(mm)    | Part-Number                                        |                                                    | Drawings | Dimensions in mm |
|------------------------------------------------------------|--|---------------------------|----------------------------------------------------|----------------------------------------------------|----------|------------------|
|                                                            |  |                           | Male insert (M)                                    | Female insert (F)                                  |          |                  |
| <b>Connector straight</b><br>crimp terminal<br>            |  | 7.5-12<br>9.5-14<br>14-17 | 09 15 408 2301<br>09 15 408 2302<br>09 15 408 2303 | 09 15 408 2401<br>09 15 408 2402<br>09 15 408 2403 | <br>     | <br>M<br><br>F   |
|                                                            |  | -                         | 09 15 408 2701                                     | 09 15 408 2801                                     | <br>     | <br>M<br><br>F   |
| Order crimp contacts separately                            |  |                           |                                                    |                                                    |          |                  |
| Identification                                             |  | Wire gauge<br>(mm²)       | Part-Number                                        |                                                    | Drawings | Dimensions in mm |
|                                                            |  |                           | Male insert (M)                                    | Female insert (F)                                  |          |                  |
| <b>Crimp contacts</b><br>gold plated<br>contact Ø 1 mm<br> |  | 0.14-1.0<br>0.5-1.5       | 09 15 400 6121<br>09 15 400 6122                   | 09 15 400 6221<br>09 15 400 6222                   |          |                  |
|                                                            |  | 0.35-2.5<br>2.5-4.0       | 09 15 400 6124<br>09 15 400 6125                   | 09 15 400 6224<br>09 15 400 6225                   |          |                  |
| contact Ø 2 mm<br>                                         |  |                           |                                                    |                                                    |          |                  |

## Features

- Available in metal and plastic housings
- Fast locking system saves time and ensures tight connection
- Easy to operate
- Power and signal connectors suit for Servo and Three-phase drives
- Standardized system cable solutions reduce assembling time and costs
- Reliable crimp termination

## Technical characteristics

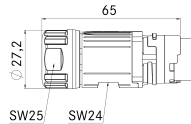
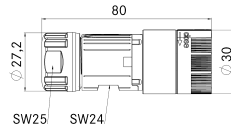
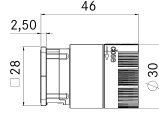
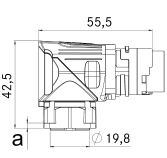
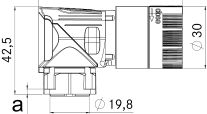
|                                                              |                                                                                               |  |                         |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--|-------------------------|
| Specifications                                               | DIN EN 60 664-1<br>DIN EN 61 984                                                              |  |                         |
| Inserts                                                      |                                                                                               |  |                         |
| Number of contacts                                           | 12 / 17 +  |  |                         |
|                                                              | <u>12 poles</u>                                                                               |  | <u>17 poles</u>         |
| Electrical data acc. to DIN EN 61 984                        | <b>7 A 160 V 2 kV 3</b>                                                                       |  | <b>7 A 125 V 2 kV 3</b> |
| Rated current                                                | 7 A                                                                                           |  | 7 A                     |
| Rated voltage                                                | 160 V                                                                                         |  | 125 V                   |
| Rated impulse voltage                                        | 2 kV                                                                                          |  | 2 kV                    |
| Pollution degree                                             | 3                                                                                             |  | 3                       |
| Rated voltage acc. to UL/CSA                                 | 125 V                                                                                         |  | 125 V                   |
| Material                                                     | Polyamide                                                                                     |  |                         |
| Limiting temperatures                                        | -20 °C ... +125 °C                                                                            |  |                         |
| Flammability accd. to UL 94                                  | V 0                                                                                           |  |                         |
| Mechanical working life                                      | ≥ 500 mating cycles                                                                           |  |                         |
| Contacts                                                     |                                                                                               |  |                         |
| Pin diameter                                                 | 2 mm                                                                                          |  |                         |
| Material                                                     | Copper alloy                                                                                  |  |                         |
| Surface                                                      | hard-gold plated                                                                              |  |                         |
| Contact resistance                                           | ≤ 5 mΩ                                                                                        |  |                         |
| Crimp terminal                                               |                                                                                               |  |                         |
| - mm²                                                        | 0.14 mm² ... 1.5 mm²                                                                          |  |                         |
| - AWG                                                        | 26 ... 16                                                                                     |  |                         |
| Housings                                                     |                                                                                               |  |                         |
| Material                                                     | Die cast zinc alloy                                                                           |  |                         |
| Surface                                                      | Nickel                                                                                        |  |                         |
| Locking element                                              | Polyamide                                                                                     |  |                         |
| Sealing                                                      | FPM                                                                                           |  |                         |
| Limiting temperatures                                        | -20 °C ... +125 °C                                                                            |  |                         |
| Degree of protection acc. to DIN EN 60529 in locked position | IP 67                                                                                         |  |                         |
| Cable Ø                                                      | 7.5 mm ... 17 mm                                                                              |  |                         |

# Han® X-TEC 23 with Metal Hoods/Housings



Number of contacts

12 +

| Identification                                                                                                                                                                                             |        | Cable diameter<br>(mm)      | Part-Number                                        |                                                    | Drawings                                                                                                                                                                                                                                                                                                                                                                               | Dimensions in mm                                                                                                                                                                   |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|---|----------|-----|------|------|-----|----|------|----------|-----|------|------|-----|----|
|                                                                                                                                                                                                            |        |                             | Male insert (M)                                    | Female insert (F)                                  |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                    |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
| <b>Connector straight</b><br>crimp terminal<br>                                                                           |        | 7.5-12<br>9.5-14.5<br>14-17 | 09 15 412 2101<br>09 15 412 2102<br>09 15 412 2103 | 09 15 412 2201<br>09 15 412 2202<br>09 15 412 2203 |                                                                                                                                                                                                                    |  M<br> F     |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
|                                                                                                                                                                                                            |        | -                           | 09 15 412 2501                                     | 09 15 412 2601                                     |                                                                                                                                                                                                                 |  M<br> F  |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
| <b>Receptacle angled</b><br>crimp terminal<br>flange 25x25 mm<br>flange 28x28 mm<br><br>Order crimp contacts separately |        | -<br>-                      | 09 15 412 2505<br>09 15 412 2506                   | 09 15 412 2605<br>09 15 412 2606                   |                                                                                                                                                                                                                |  M<br> F |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
|                                                                                                                                                                                                            |        |                             |                                                    |                                                    | <table border="1"> <thead> <tr> <th>flange</th><th>a (mm)</th><th>b (mm)</th><th>c (mm)</th><th>d (mm)</th><th>e (mm)</th><th>f</th></tr> </thead> <tbody> <tr> <td>25x25 mm</td><td>2.5</td><td>25.7</td><td>19.8</td><td>2.7</td><td>28</td><td>M2.5</td></tr> <tr> <td>28x28 mm</td><td>4.5</td><td>28.0</td><td>22.6</td><td>3.3</td><td>32</td><td>M3</td></tr> </tbody> </table> | flange                                                                                                                                                                             | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) | f | 25x25 mm | 2.5 | 25.7 | 19.8 | 2.7 | 28 | M2.5 | 28x28 mm | 4.5 | 28.0 | 22.6 | 3.3 | 32 |
| flange                                                                                                                                                                                                     | a (mm) | b (mm)                      | c (mm)                                             | d (mm)                                             | e (mm)                                                                                                                                                                                                                                                                                                                                                                                 | f                                                                                                                                                                                  |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
| 25x25 mm                                                                                                                                                                                                   | 2.5    | 25.7                        | 19.8                                               | 2.7                                                | 28                                                                                                                                                                                                                                                                                                                                                                                     | M2.5                                                                                                                                                                               |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
| 28x28 mm                                                                                                                                                                                                   | 4.5    | 28.0                        | 22.6                                               | 3.3                                                | 32                                                                                                                                                                                                                                                                                                                                                                                     | M3                                                                                                                                                                                 |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
| Identification                                                                                                                                                                                             |        | Wire gauge<br>(mm²)         | Part-Number                                        |                                                    | Drawings                                                                                                                                                                                                                                                                                                                                                                               | Dimensions in mm                                                                                                                                                                   |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
|                                                                                                                                                                                                            |        |                             | Male insert (M)                                    | Female insert (F)                                  |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                    |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |
| <b>Crimp contacts</b><br>gold plated<br>contact Ø 1 mm<br>                                                              |        | 0.14-1.0<br>0.5-1.5         | 09 15 400 6121<br>09 15 400 6122                   | 09 15 400 6221<br>09 15 400 6222                   |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                    |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |

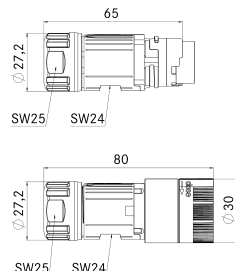
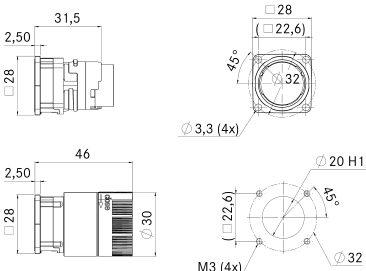
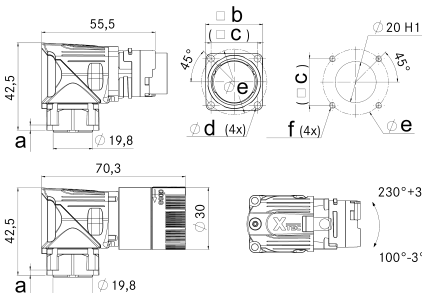
# Han® X-TEC 23 with Metal Hoods/Housings



Number of contacts

17 +



| Identification                                                                                                                                                                                                  |        | Cable diameter<br>(mm)    | Male insert (M)                                    | Female insert (F)                                  | Drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Dimensions in mm |        |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------|--------|--------|--------|--------|--------|---|----------|-----|------|------|-----|----|------|----------|-----|------|------|-----|----|----|
| Connector straight<br><br>crimp terminal<br><br>                                                                               |        | 7.5-12<br>9.5-14<br>14-17 | 09 15 417 2101<br>09 15 417 2102<br>09 15 417 2103 | 09 15 417 2201<br>09 15 417 2202<br>09 15 417 2203 |   M<br> F                                                                                                                                                                                                                                                                                                                                                                        |                  |        |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |    |
| Receptacle straight<br><br>crimp terminal<br><br>                                                                            |        | -                         | 09 15 417 2501                                     | 09 15 417 2601                                     |   M<br> F                                                                                                                                                                                                                                                                                                                                                                    |                  |        |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |    |
| Receptacle angled<br><br>crimp terminal<br>flange 25x25 mm<br>flange 28x28 mm<br><br><br><br>Order crimp contacts separately |        | -<br>-                    | 09 15 417 2505<br>09 15 417 2506                   | 09 15 417 2605<br>09 15 417 2606                   |  <table><thead><tr><th>flange</th><th>a (mm)</th><th>b (mm)</th><th>c (mm)</th><th>d (mm)</th><th>e (mm)</th><th>f</th></tr></thead><tbody><tr><td>25x25 mm</td><td>2.5</td><td>25.7</td><td>19.8</td><td>2.7</td><td>28</td><td>M2.5</td></tr><tr><td>28x28 mm</td><td>4.5</td><td>28.0</td><td>22.6</td><td>3.3</td><td>32</td><td>M3</td></tr></tbody></table>  M<br> F |                  | flange | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) | f | 25x25 mm | 2.5 | 25.7 | 19.8 | 2.7 | 28 | M2.5 | 28x28 mm | 4.5 | 28.0 | 22.6 | 3.3 | 32 | M3 |
| flange                                                                                                                                                                                                          | a (mm) | b (mm)                    | c (mm)                                             | d (mm)                                             | e (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | f                |        |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |    |
| 25x25 mm                                                                                                                                                                                                        | 2.5    | 25.7                      | 19.8                                               | 2.7                                                | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | M2.5             |        |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |    |
| 28x28 mm                                                                                                                                                                                                        | 4.5    | 28.0                      | 22.6                                               | 3.3                                                | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | M3               |        |        |        |        |        |        |   |          |     |      |      |     |    |      |          |     |      |      |     |    |    |

| Identification                                                                                                                                | Wire gauge<br>(mm²) | Part-Number                      |                                  | Drawings | Dimensions in mm |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|----------------------------------|----------|------------------|
|                                                                                                                                               |                     | Male insert (M)                  | Female insert (F)                |          |                  |
| <b>Crimp contacts</b><br>gold plated<br>contact Ø 1 mm<br> | 0.14-1.0<br>0.5-1.5 | 09 15 400 6121<br>09 15 400 6122 | 09 15 400 6221<br>09 15 400 6222 |          |                  |

## Features

- Available in metal and plastic housings
- Fast locking system saves time and ensures tight connection
- Easy to operate
- Power and signal connectors suit for Servo and Three-phase drives
- Standardized system cable solutions reduce assembling time and costs
- Power and signal contacts combined in one connector
- Reliable crimp termination

## Technical characteristics

|                                                              |                                                                                             |                                              |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------|
| Specifications                                               | DIN EN 60 664-1<br>DIN EN 61 984                                                            |                                              |
| Inserts                                                      |                                                                                             |                                              |
| Number of contacts                                           | 3 / 5 +  |                                              |
|                                                              | <u>Power contacts</u>                                                                       | <u>Signal contacts</u>                       |
| Electrical data acc. to DIN EN 61 984                        | <b>40 A 630 V 6 kV 3</b>                                                                    | <b>7 A 220 V 2.5 kV 3</b>                    |
| Rated current                                                | 40 A                                                                                        | 7 A                                          |
| Rated voltage                                                | 630 V                                                                                       | 220 V                                        |
| Rated impulse voltage                                        | 6 kV                                                                                        | 2.5 kV                                       |
| Pollution degree                                             | 3                                                                                           | 3                                            |
| Rated voltage acc. to UL/CSA                                 | 600 V                                                                                       | 220 V                                        |
| Material                                                     | Polyamid                                                                                    |                                              |
| Limiting temperatures                                        | -20 °C ... +125 °C                                                                          |                                              |
| Flammability accd. to UL 94                                  | V 0                                                                                         |                                              |
| Mechanical working life                                      | ≥ 500 mating cycles                                                                         |                                              |
| Contacts                                                     | <u>Power contacts</u>                                                                       | <u>Signal contacts</u>                       |
| Pin diameter                                                 | 3 mm                                                                                        | 1 mm                                         |
| Material                                                     | Copper alloy                                                                                | Copper alloy                                 |
| Surface                                                      | hard-gold plated                                                                            | hard-gold plated                             |
| Contact resistance                                           | ≤ 1.2 mΩ                                                                                    | ≤ 5 mΩ                                       |
| Crimp terminal                                               |                                                                                             |                                              |
| - mm <sup>2</sup>                                            | 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| - AWG                                                        | 16 ... 8                                                                                    | 26 ... 16                                    |
| Housings                                                     | <u>Metal</u>                                                                                | <u>Plastic</u>                               |
| Material                                                     | Die cast zinc alloy                                                                         | Polyamide                                    |
| Surface                                                      | Nickel                                                                                      | -                                            |
| Locking element                                              | Polyamide                                                                                   | Polyamide                                    |
| Sealing                                                      | FPM                                                                                         | FPM                                          |
| Limiting temperatures                                        | -20 °C ... +125 °C                                                                          | -20 °C ... +125 °C                           |
| Degree of protection acc. to DIN EN 60529 in locked position | IP 67                                                                                       | IP 67                                        |
| Cable Ø                                                      | 9 mm ... 20 mm                                                                              | 9 mm ... 20 mm                               |



# Han® X-TEC 32 with Plastic Hoods/Housings



Number of contacts

3 / 5 +



| Identification                                             |  | Cable diameter<br>(mm)  | Part-Number                                        |                                                    | Drawings | Dimensions in mm |
|------------------------------------------------------------|--|-------------------------|----------------------------------------------------|----------------------------------------------------|----------|------------------|
|                                                            |  |                         | Male insert (M)                                    | Female insert (F)                                  |          |                  |
| <b>Connector straight</b><br>crimp terminal<br>            |  | 9-14<br>12-20<br>12-20* | 09 15 408 3301<br>09 15 408 3302<br>09 15 408 3303 | 09 15 408 3401<br>09 15 408 3402<br>09 15 408 3403 |          | <br>M<br><br>F   |
|                                                            |  | -                       | 09 15 408 3701                                     | 09 15 408 3801                                     |          | <br>M<br><br>F   |
| Order crimp contacts separately                            |  |                         |                                                    |                                                    |          |                  |
| Identification                                             |  | Wire gauge<br>(mm²)     | Part-Number                                        |                                                    | Drawings | Dimensions in mm |
|                                                            |  |                         | Male insert (M)                                    | Female insert (F)                                  |          |                  |
| <b>Crimp contacts</b><br>gold plated<br>contact Ø 1 mm<br> |  | 0.14-1.0<br>0.5-1.5     | 09 15 400 6121<br>09 15 400 6122                   | 09 15 400 6221<br>09 15 400 6222                   |          |                  |
| contact Ø 3 mm<br>                                         |  | 6-10                    | 09 15 400 6127                                     | 09 15 400 6227                                     |          |                  |

\* cable entry for flexible conduits

## Features

- Available in metal and plastic housings
- Fast locking system saves time and ensures tight connection
- Easy to operate
- Power and signal connectors suit for Servo and Three-phase drives
- Standardized system cable solutions reduce assembling time and costs
- Power and signal contacts combined in one connector
- Reliable crimp termination

## Technical characteristics

|                                                              |                                                                                             |                           |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------|
| Specifications                                               | DIN EN 60 664-1<br>DIN EN 61 984                                                            |                           |
| Inserts                                                      |                                                                                             |                           |
| Number of contacts                                           | 6 / 4 +  |                           |
|                                                              | <u>Power contacts</u>                                                                       | <u>Signal contacts</u>    |
| Electrical data acc. to DIN EN 61 984                        | <b>16 A 630 V 6 kV 3</b>                                                                    | <b>7 A 220 V 2.5 kV 3</b> |
| Rated current                                                | 16 A                                                                                        | 7 A                       |
| Rated voltage                                                | 630 V                                                                                       | 220 V                     |
| Rated impulse voltage                                        | 6 kV                                                                                        | 2.5 kV                    |
| Pollution degree                                             | 3                                                                                           | 3                         |
| Rated voltage acc. to UL/CSA                                 | 600 V                                                                                       | 220 V                     |
| Material                                                     | Polyamid                                                                                    |                           |
| Limiting temperatures                                        | -20 °C ... +125 °C                                                                          |                           |
| Flammability accd. to UL 94                                  | V 0                                                                                         |                           |
| Mechanical working life                                      | ≥ 500 mating cycles                                                                         |                           |
| Contacts                                                     | <u>Power contacts</u>                                                                       |                           |
| Pin diameter                                                 | 2 mm                                                                                        |                           |
| Material                                                     | Copper alloy                                                                                |                           |
| Surface                                                      | hard-gold plated                                                                            |                           |
| Contact resistance                                           | ≤ 3 mΩ                                                                                      |                           |
| Crimp terminal                                               |                                                                                             |                           |
| - mm <sup>2</sup>                                            | 0.35 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                                  |                           |
| - AWG                                                        | 22 ... 12                                                                                   |                           |
| Housings                                                     | <u>Metal</u>                                                                                | <u>Plastic</u>            |
| Material                                                     | Die cast zinc alloy                                                                         | Polyamide                 |
| Surface                                                      | Nickel                                                                                      | -                         |
| Locking element                                              | Polyamide                                                                                   | Polyamide                 |
| Sealing                                                      | FPM                                                                                         | FPM                       |
| Limiting temperatures                                        | -20 °C ... +125 °C                                                                          | -20 °C ... +125 °C        |
| Degree of protection acc. to DIN EN 60529 in locked position | IP 67                                                                                       | IP 67                     |
| Cable Ø                                                      | 9 mm ... 20 mm                                                                              | 9 mm ... 20 mm            |



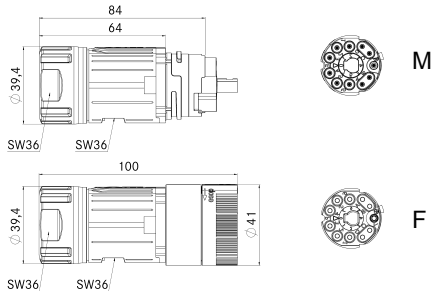
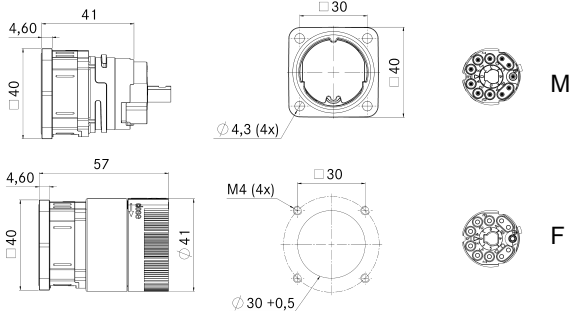
# Han® X-TEC 32 with Plastic Hoods/Housings



Number of contacts

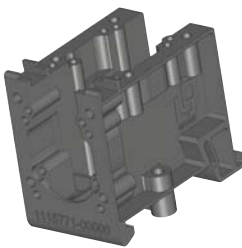
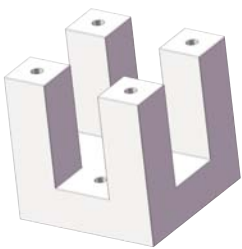
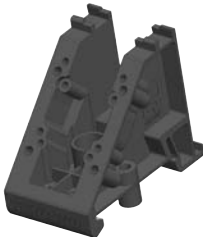
6 / 4 +



| Identification                                                                                                                              |  | Cable diameter<br>(mm)  | Part-Number                                        |                                                    | Drawings                                                                            | Dimensions in mm |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|----------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|------------------|
|                                                                                                                                             |  |                         | Male insert (M)                                    | Female insert (F)                                  |                                                                                     |                  |
| <b>Connector straight</b><br><br>crimp terminal<br><br>    |  | 9-14<br>12-20<br>12-20* | 09 15 410 3301<br>09 15 410 3302<br>09 15 410 3303 | 09 15 410 3401<br>09 15 410 3402<br>09 15 410 3403 |   |                  |
| <b>Receptacle straight</b><br><br>crimp terminal<br><br> |  | -                       | 09 15 410 3701                                     | 09 15 410 3801                                     |  |                  |
| Order crimp contacts separately                                                                                                             |  |                         |                                                    |                                                    |                                                                                     |                  |

| Identification                                                                                                                                        |  | Wire gauge<br>(mm²) | Part-Number                      |                                  | Drawings | Dimensions in mm |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|----------------------------------|----------------------------------|----------|------------------|
|                                                                                                                                                       |  |                     | Male insert (M)                  | Female insert (F)                |          |                  |
| <b>Crimp contacts</b><br><br>gold plated<br>contact Ø 2 mm<br><br> |  | 0.35-2.5<br>2.5-4   | 09 15 400 6124<br>09 15 400 6125 | 09 15 400 6224<br>09 15 400 6225 |          |                  |

\* cable entry for flexible conduits

| Identification                                                                    | Part-Number                                 | Drawings                                                                                                                                                                 | Dimensions in mm |
|-----------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <p>Top-hat rail adapter 90°</p> <p>for Han® X-TEC 23</p> <p>for Han® X-TEC 32</p> | <p>09 15 400 9901</p> <p>09 15 400 9903</p> |      |                  |
| <p>Top-hat rail adapter 45°</p> <p>for Han® X-TEC 23</p>                          | <p>09 15 400 9902</p>                       |                                                                                        |                  |
| <p>Locking element</p> <p>for Han® X-TEC 23</p> <p>for Han® X-TEC 32</p>          | <p>09 15 400 9905</p> <p>09 15 400 9906</p> |   |                  |

Identification      Part Number      Drawings      Dimensions in mm

## Crimping tool

contact Ø 1 mm

09 99 000 0821



| Part Number     |                   | Wire gauge |     | Tool adjustment |
|-----------------|-------------------|------------|-----|-----------------|
| Male insert (M) | Female insert (F) | (mm²)      | AWG |                 |
| 09 15 400 6121  | 09 15 400 6221    | 0.14       | 26  | 4               |
|                 |                   | 0.25       | 24  | 5               |
|                 |                   | 0.34       | 22  | 6               |
|                 |                   | 0.50       | 20  | 6               |
|                 |                   | 0.75       | 18  | 7               |
|                 |                   | 1.00       | 18  | 8               |
| 09 15 400 6122  | 09 15 400 6222    | 0.50       | 20  | 6               |
|                 |                   | 0.75       | 18  | 5               |
|                 |                   | 1.00       | 18  | 6               |
|                 |                   | 1.50       | 16  | 7               |

## Crimping tool

contact Ø 2 mm

09 99 000 0822



Locator  
contact Ø 2 mm

09 99 000 0823

| Part Number     |                   | Wire gauge |     | Tool adjustment |
|-----------------|-------------------|------------|-----|-----------------|
| Male insert (M) | Female insert (F) | (mm²)      | AWG |                 |
| 09 15 400 6124  | 09 15 400 6224    | 0.35       | 22  | 5               |
|                 |                   | 0.50       | 20  | 5               |
|                 |                   | 0.75       | 18  | 6               |
|                 |                   | 1.00       | 18  | 6               |
|                 |                   | 1.50       | 16  | 7               |
|                 |                   | 2.50       | 14  | 8               |
| 09 15 400 6125  | 09 15 400 6225    | 2.50       | 14  | 4               |
|                 |                   | 4.00       | 12  | 5               |

## Crimping tool

contact Ø 3 mm

09 99 000 0824



Locator  
contact Ø 3 mm

09 99 000 0825

| Part Number     |                   | Wire gauge |     | Tool adjustment |
|-----------------|-------------------|------------|-----|-----------------|
| Male insert (M) | Female insert (F) | (mm²)      | AWG |                 |
| 09 15 400 6127  | 09 15 400 6227    | 6          | 10  | 4               |
|                 |                   | 10         | 8   | 6               |