

## Cable connector - ST-3ES1N8A8K04S - 1618603

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Cable connector, straight, SPEEDCON locking, M17, number of positions: 3+PE, type of contact: Socket, shielded: yes, cable diameter range: 9 mm ... 11.2 mm, number of positions: 4, connection method: Crimp connection

### Your advantages

- ✓ Reduced size: ideal for compact devices
- ✓ Consistent EMC protection for reliable connection solutions in the industrial environment
- ✓ Crimping connection: vibration- and temperature-resistant assembly
- ✓ Flexible use: reliably connect various cable diameters



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 791663 |
| GTIN         | 4046356791663                                                                                           |

### Technical data

#### General

|                                                    |                                                           |
|----------------------------------------------------|-----------------------------------------------------------|
| Note                                               | Order information: Order crimp contacts Ø 2 mm separately |
| Type of locking                                    | SPEEDCON locking                                          |
| Direction of rotation of contact chamber numbering | Standard                                                  |
| Coding                                             | N                                                         |
| Contact connection method                          | Crimp connection                                          |
| Type of contacts                                   | Socket                                                    |
| Number of positions                                | 4                                                         |
| Contact diameter of power contacts                 | 2 mm                                                      |
| Rated current for power contacts                   | 25 A                                                      |
| Contact diameter of signal contacts                | 2 mm                                                      |
| Conductor entry                                    | 9 mm ... 11.2 mm                                          |
| Pg housing screw connection                        | none                                                      |

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## Technical data

### Ambient conditions

|                      |                   |
|----------------------|-------------------|
| Ambient temperature  | -40 °C ... 125 °C |
| Degree of protection | IP67              |

### Specifications according to DIN EN 61984:2001

|                                               |        |
|-----------------------------------------------|--------|
| Installation height max.                      | 3000 m |
| Nominal / operating voltage of power contacts | 630 V  |
| Rated surge voltage of power contacts         | 6 kV   |
| Overvoltage category of power contacts        | III    |
| Degree of pollution of power contacts         | 3      |

### Standards and Regulations

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety note | WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.                                                                                                                                                                                                                                                                                 |
|             | • WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.                                                                                                                                                                                                                    |
|             | • WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product. |
|             | • The products are suitable for applications in plant, controller, and electrical device engineering.                                                                                                                                                                                                                                                                                                                              |
|             | • When operating the connectors in outdoor applications, they must be separately protected against environmental influences.                                                                                                                                                                                                                                                                                                       |
|             | • Assembled products may not be manipulated or improperly opened.                                                                                                                                                                                                                                                                                                                                                                  |
|             | • Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> ).                                                                                                                                                                                      |
|             | • When using the product in direct connection with third-party manufacturers, the user is responsible.                                                                                                                                                                                                                                                                                                                             |
|             | • For operating voltages > 50 V AC, conductive connector housings must be grounded                                                                                                                                                                                                                                                                                                                                                 |
|             | • Ensure that the protective or functional ground has been properly connected.                                                                                                                                                                                                                                                                                                                                                     |
|             | • VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector                                                                                                                                                                                                                                                                                            |
|             | • Only use tools recommended by Phoenix Contact                                                                                                                                                                                                                                                                                                                                                                                    |
|             | • The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.                                                                                                                                                                                                                                   |
|             | • Operate the connector only when it is fully plugged in and interlocked.                                                                                                                                                                                                                                                                                                                                                          |
|             | • Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.                                                                                                                                                                                                                                                                                                |
|             | • Observe the minimum bending radius of the cable. Lay the cable without twisting it.                                                                                                                                                                                                                                                                                                                                              |

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### Technical data

#### Standards and Regulations

|  |                                                                                                                                                                                                                                                                                        |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"><li>• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).</li></ul> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

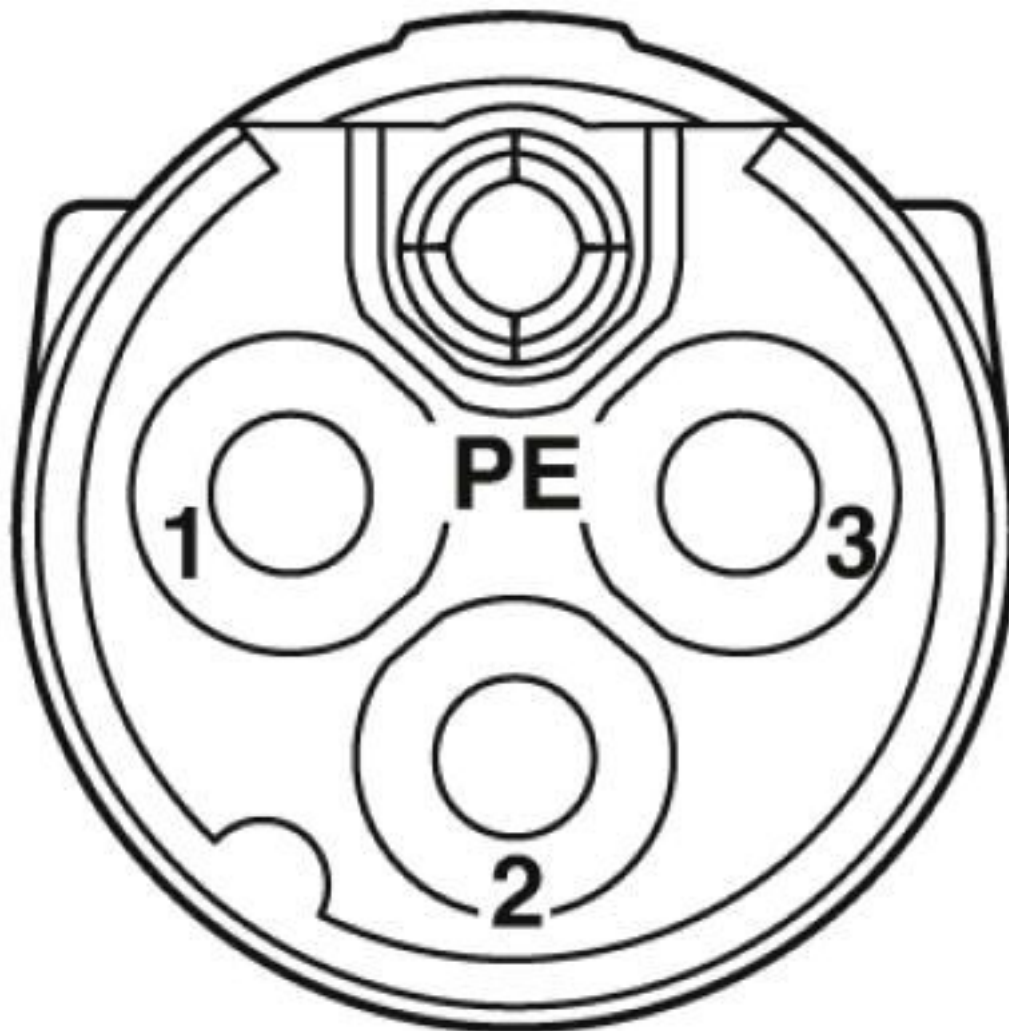
#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

## Cable connector - ST-3ES1N8A8K04S - 1618603

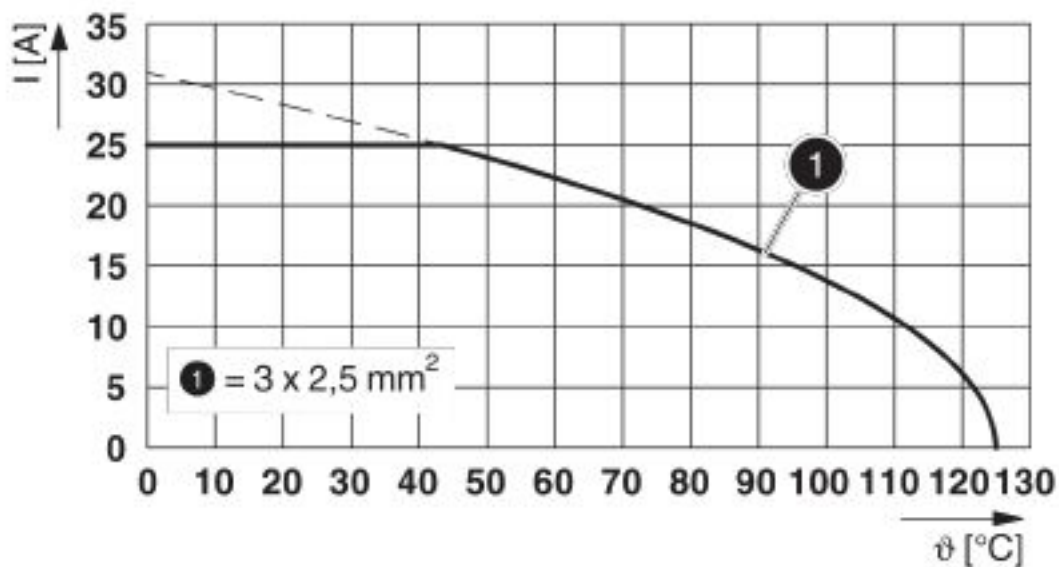
Schematic diagram



Connector pin assignment

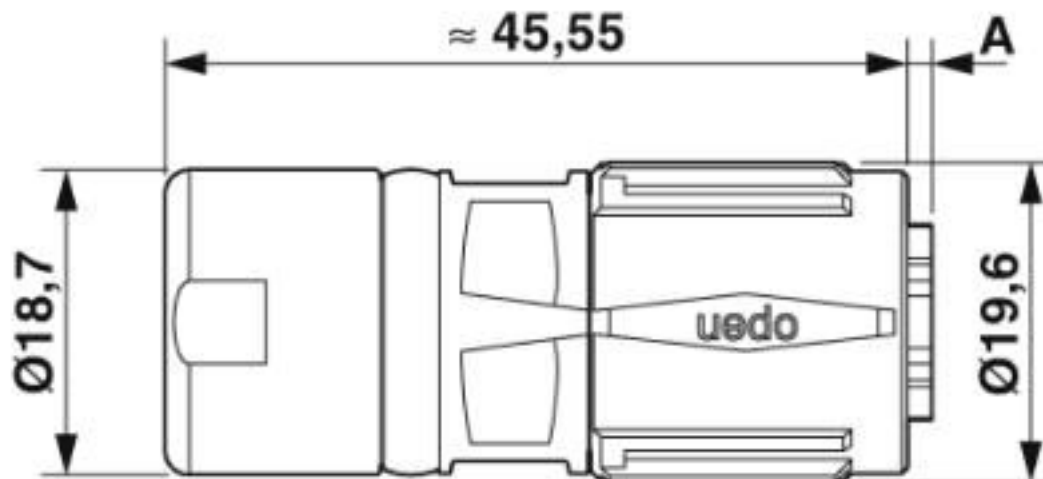
## Cable connector - ST-3ES1N8A8K04S - 1618603

Diagram



$I$  = current strength,  $\theta$  = ambient temperature, 3x 25 A

Dimensional drawing



### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27260700 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 7.0 | 27440102 |
| eCl@ss 8.0 | 27440102 |
| eCl@ss 9.0 | 27440102 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002635 |
| ETIM 5.0 | EC002635 |
| ETIM 6.0 | EC002061 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201404 |
| UNSPSC 13.2   | 39121413 |
| UNSPSC 18.0   | 39121413 |
| UNSPSC 19.0   | 39121413 |
| UNSPSC 20.0   | 39121413 |
| UNSPSC 21.0   | 39121413 |

### Approvals

#### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 335019 |
| Nominal voltage UN | 600 V                                                                               |                                                                                                                                                       |               |
| Nominal current IN | 15 A                                                                                |                                                                                                                                                       |               |
| mm²/AWG/kcmil      | 14                                                                                  |                                                                                                                                                       |               |

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### Approvals

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 335019 |
| Nominal voltage UN | 600 V                                                                             |                                                                                                                                                       |               |
| Nominal current IN | 15 A                                                                              |                                                                                                                                                       |               |
| mm²/AWG/kcmil      | 14                                                                                |                                                                                                                                                       |               |

|     |                                                                                   |         |
|-----|-----------------------------------------------------------------------------------|---------|
| EAC |  | B.01687 |
|-----|-----------------------------------------------------------------------------------|---------|

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|-----------------------------------------------------------------------------------|

### Accessories

#### Accessories

##### Crimp contact

Crimp contact - ST-20KS010 - 1607657



Crimp contact, turned, contact diameter: 2 mm, crimp range: 0.25 mm² ... 1 mm²

Crimp contact - ST-20KS020 - 1607658



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 1 mm² ... 2.5 mm²

### Mounting material

Color-coding - ST-Z0016 - 1617993



Color-coding, color: green

## Cable connector - ST-3ES1N8A8K04S - 1618603

### Accessories

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Color-coding - ST-Z0017 - 1618049



Color-coding, color: orange

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Color-coding - ST-Z0018 - 1618050



Color-coding, color: black

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### Protective cover

Protective cap - ST-Z0024 - 1621904



Plastic protection cap for connectors with M17 compact knurled nut and M17 compact SPEEDCON knurled nut

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