

# ST-3ES1N8A8002 - Cable connector



1607679

<https://www.phoenixcontact.com/us/products/1607679>

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Cable connector, application: Power, straight, Screw locking mechanism, M17, number of positions: 3+PE, contact connection type: Socket, shielded: yes, cable diameter range: 3.5 mm .. 5 mm, number of positions: 4, connection method: Crimp connection, series: ST

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1607679                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | NULL                           |
| Product key                          | ABRBEA                         |
| GTIN                                 | 4046356273855                  |
| Weight per piece (including packing) | 107 g                          |
| Weight per piece (excluding packing) | 28.81 g                        |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

|                    |  |
|--------------------|--|
| Order information: | Order crimp contacts Ø 2 mm separately |
|--------------------|--|

### Product properties

|                     |                                 |
|---------------------|---------------------------------|
| Product type        | Circular connector (cable-side) |
| Series              | ST                              |
| Application         | Power                           |
| Number of positions | 4                               |
| Connection profile  | 3+PE                            |
| Shielded            | yes                             |
| Coding              | N                               |
| Thread type         | M17                             |

### Material specifications

|                            |  |
|----------------------------|--|
| Seal material              | FPM  |
| Housing material           | Metal  |
| Housing material           | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Insulator material         | PA 6.6   |
| Gasket and O-ring material | FPM  |

### Connection data

#### Conductor connection

|                   |                  |
|-------------------|------------------|
| Connection method | Crimp connection |
|-------------------|------------------|

### Electrical properties

#### Contact: Contact group 1

|                       |       |
|-----------------------|-------|
| Contact diameter      | 2 mm  |
| Nominal current $I_N$ | 20 A  |
| Nominal voltage $U_N$ | 630 V |
| Overvoltage category  | III   |
| Degree of pollution   | 3     |
| Rated surge voltage   | 6 kV  |

#### Contact: Contact group 2

|                  |      |
|------------------|------|
| Contact diameter | 2 mm |
|------------------|------|

### Connector

|                       |          |
|-----------------------|----------|
| Type                  | straight |
| Direction of rotation | Standard |

### Cable/line

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|                         |                 |
|-------------------------|-----------------|
| External cable diameter | 3.5 mm ... 5 mm |
|-------------------------|-----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |                   |
|---------------------------------|-------------------|
| Degree of protection            | IP67              |
| Ambient temperature (operation) | -40 °C ... 125 °C |
| Altitude                        | 3000 m            |

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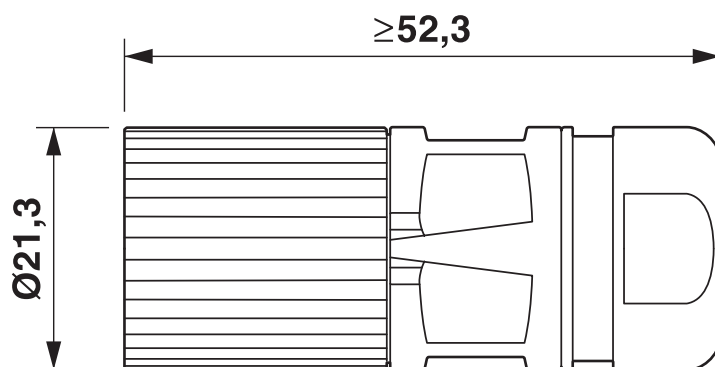
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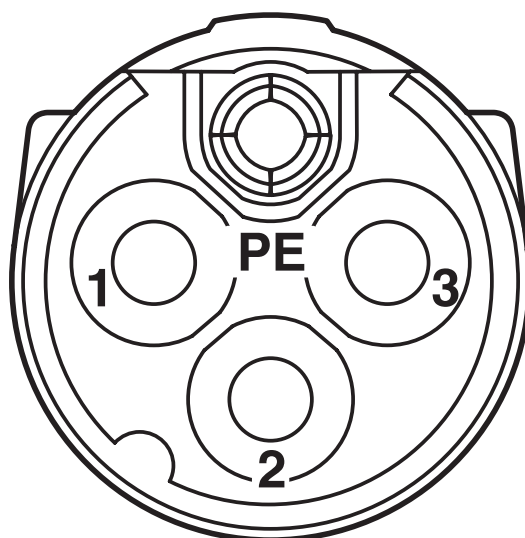


## Drawings

Dimensional drawing



Schematic diagram

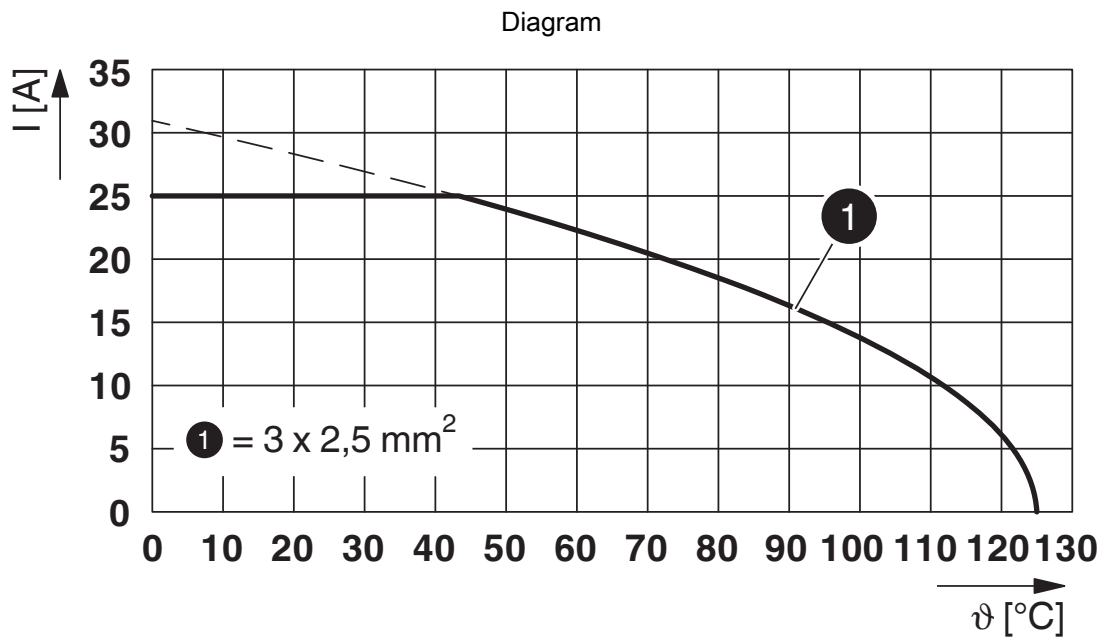


Connector pin assignment

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

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## Environmental product compliance

EU REACH SVHC

| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|
|-------------------------------------|----------------------------|

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