# SF-5ES1N8A80A2S - Cable connector

1618195

https://www.phoenixcontact.com/us/products/1618195

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CRIMP



The figure shows the 4+3+PE version

Cable connector, application: Power, straight short, SPEEDCON, M23, number of positions: 5+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 9 mm ... 11 mm, number of positions: 6, connection method: Crimp connection, series: SF, This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives. Alternative products: 1628825

## Your advantages

- 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
- Molded designs with preassembled cables on one or both sides

## Commercial data

| | |
|---|---|
| Item number | 1618195 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB32 |
| Product key | ABRBFB |
| GTIN | 4046356584432 |
| Weight per piece (including packing) | 130.9 g |
| Weight per piece (excluding packing) | 117.72 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Order crimp contacts 6 x Ø 2 mm separately |
| Note on application | Series SF connectors are not compatible with series M23 PRO and must not be combined. |

Safety note

| | |
|---|---|
| Safety note | • 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. |

### Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |
| Series | SF |
| Application | Power |
| Number of positions | 6 |
| Connection profile | 5+PE |
| Shielded | yes |
| Coding | N |
| Thread type | M23 |

### Material specifications

| | |
|---|---|
| Material Housing | Metal |
| Seal material | FPM |

### Connection data

Conductor connection

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

### Electrical properties

Contact: Contact group 1

| | |
|---|---|
| Nominal current $I_N$ | 30 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 |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Rated surge voltage | 6 kV |

## Connector

| | |
|---|---|
| Type | straight short |

Connection 1

| | |
|---|---|
| Head design | Socket |
| Head cable outlet | straight, short |
| Head thread type | M23 |

## Cable/line

| | |
|---|---|
| External cable diameter | 9 mm ... 11 mm |

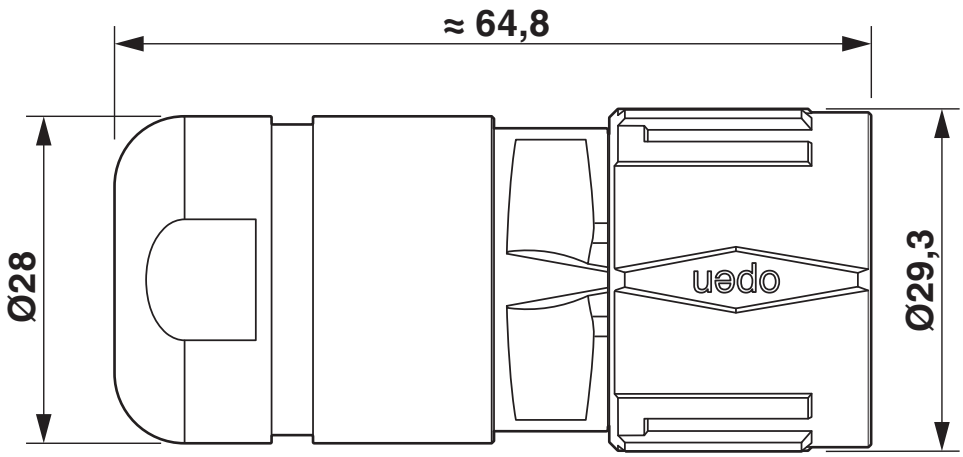
## Environmental and real-life conditions

Ambient conditions

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

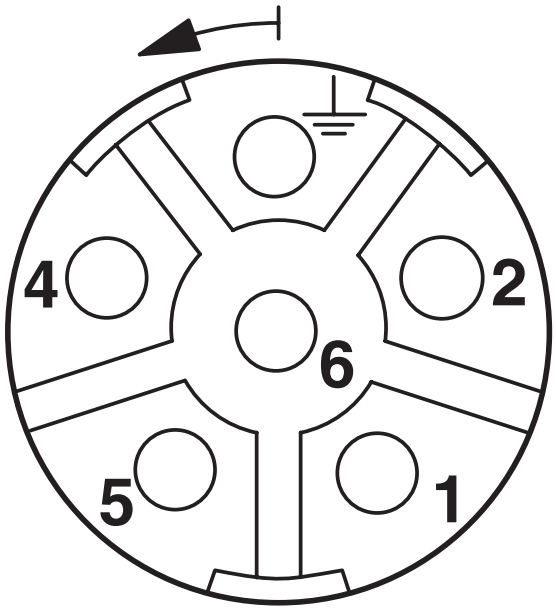
## Drawings

Dimensional drawing



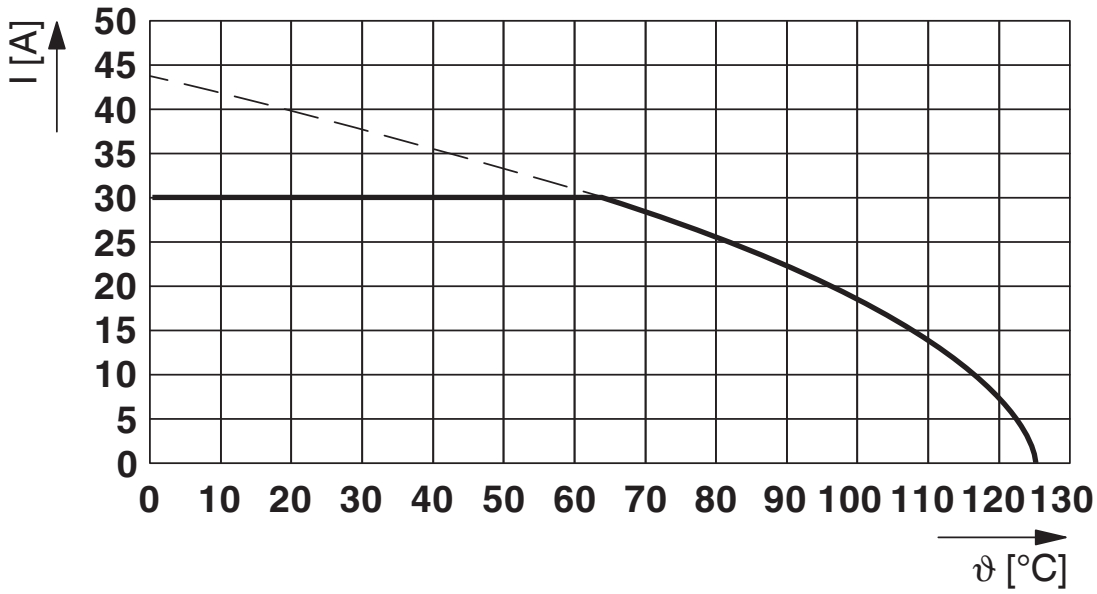

Dimensional drawing

Schematic diagram




Connector pin assignment

Diagram


I [A]
50
45
40
35
30
25
20
15
10
5
0
0 10 20 30 40 50 60 70 80 90 100 110 120 130
ϑ [°C]

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1618195

**cUL Recognized**
Approval ID: E153698-20041116

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 18 A | 12 | - |

**UL Recognized**
Approval ID: E153698-20041116

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 27 A | 12 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002635 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 1136c2e7-8919-4c2a-b515-45f240af551a |

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