# SM-5ES1N8A8L32S - Cable connector

1613428

https://www.phoenixcontact.com/us/products/1613428

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CRIMP



The figure shows the 8-pos. (4+3+PE) product version

Cable connector, application: Power, straight, SPEEDCON, M40, number of positions: 2+3+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 9 mm ... 14 mm, number of positions: 6, connection method: Crimp connection, series: SM, this item is expected to be lead-free from Q3 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## 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 | 1613428 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB32 |
| Product key | ABRBGB |
| GTIN | 4046356400206 |
| Weight per piece (including packing) | 428.1 g |
| Weight per piece (excluding packing) | 370.65 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Order crimp contacts 2 x Ø 2 mm, 4 x Ø 3.6 mm separately |

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 | SM |
| Application | Power |
| Number of positions | 6 |
| Connection profile | 2+3+PE |
| Shielded | yes |
| Coding | N |
| Thread type | M40 |

### Material specifications

| | |
|---|---|
| Material Housing | GD-Zn |
| Material Housing surface | Ni |
| Material Insulating body | PA 6.6 |
| Material Seal | FPM |
| Housing material | Turned parts: copper zinc alloy (CuZn), aluminum (Al), die-cast parts: zinc (GD-Zn) |

### Connection data

Conductor connection

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

### Electrical properties

Contact: Contact group 1

| | |
|---|---|
| Contact diameter | 3.6 mm |
| Nominal current $I_N$ | 70 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 |
| Nominal current $I_N$ | 30 A |

| | |
|---|---|
| Nominal voltage $U_N$ | 250 V |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Rated surge voltage | 4 kV |

## Connector

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

### Connection 1

| | |
|---|---|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M40 |

## Cable/line

| | |
|---|---|
| External cable diameter | 9 mm ... 14 mm |

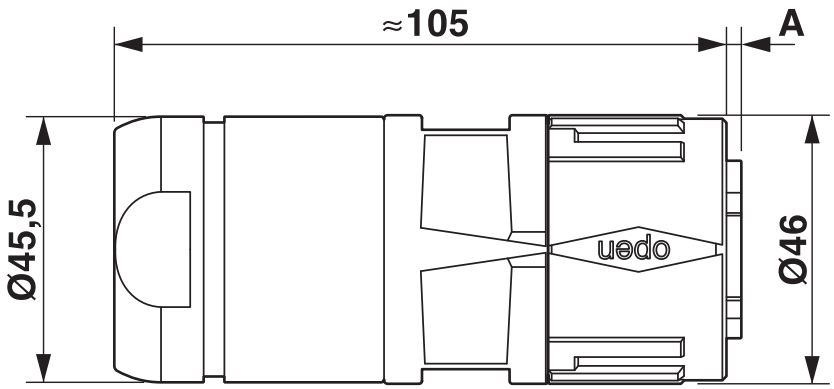
## Environmental and real-life conditions

### Ambient conditions

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

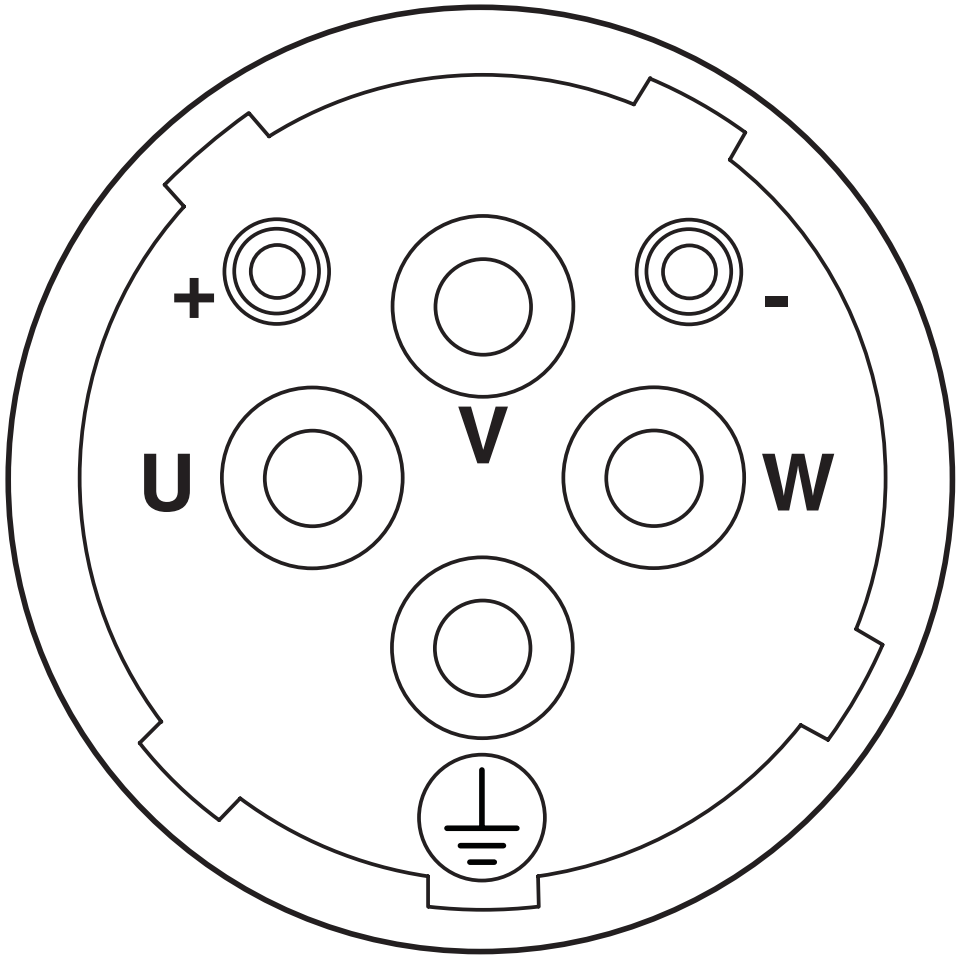
## Drawings

Dimensional drawing




Dimensional drawing

Schematic diagram




Connector pin assignment

Diagram




I = current strength, T = ambient temperature

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1613428

**cUL Recognized**
Approval ID: E153698-20150903

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 40 A | - | - |
| Signal | 600 V | 20 A | - | - |

**UL Recognized**
Approval ID: E153698-20150903

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 65 A | - | - |
| Signal | 600 V | 30 A | - | - |

## 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(b) |

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 | 310f3018-a256-4218-9df7-29569555865a |

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com