# SH-8ESC58A8LB2S - Cable connector

1621522

https://www.phoenixcontact.com/us/products/1621522

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

CAT5



The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

M23, Cable connector, application: Hybrid, series: SH, straight long, shielded: yes, SPEEDCON, No. of pos.: 4+4+4+PE / 3+N+PE, CAT5, 100 Mbps, contact connection type: Socket, Crimp connection, cable diameter range: 11.7 mm ... 15 mm, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- Transmission of signals, data, and power in just a single connector
- CAT5 data interface for up to 100 Mbps
- Reduced connection time with optional SPEEDCON fast locking system
- Safe use in the field, thanks to high degree of protection
- Consistent EMC protection for reliable connection solutions in the industrial environment

## Commercial data

| | |
|---|---|
| Item number | 1621522 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB33 |
| Product key | ABRCDB |
| GTIN | 4046356936354 |
| Weight per piece (including packing) | 136.3 g |
| Weight per piece (excluding packing) | 121.255 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Crimp contacts, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately |
| Order information: | Recommended hybrid cable:<br>(5 x 2.5 mm² + 2 x (2 x 0.5 mm²) + (4 x 0.34 mm²) C) C<br>Lynxeo, order number 10572415<br><br>Recommended hybrid cable:<br>(4 x 1.5 mm² + (4 x 0.34 mm² C) + (2 x 0.75 mm²) + (2 x 0.50 mm²)) C<br>Lynxeo, order number 10580074 |

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) |
| Application | Hybrid |

### Electrical properties

| | |
|---|---|
| Transmission speed | 100 Mbps |

### Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | 100 |

### Connector

Connection 1

| | |
|---|---|
| Head design | Socket |

Insulating body

| | |
|---|---|
| Note | Order information: Crimp contacts, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately |
| Protection against electric shock | IEC 61984 and VDE 0623 |
| Data rate | 100 Mbps |
| Material (Insulating body) | PA 6.6 |
| Insertion/withdrawal cycles | 100 |
| Connection method | Crimp connection |
| Contact switching type | Socket |
| Application | Hybrid |
| Number of positions | 13 |
| Connection profile | 4+4+4+PE / 3+N+PE |

| | |
|---|---|
| Installation height | 2000 m (4000 m at 300 V system voltage in accordance with DIN EN 606664-1) |
| Number (Power contacts) | 5 |
| Diameter (External cable diameter / Power contacts) | max. 4.15 mm (Outer cable sheath) |
| Contact diameter (Power contacts) | 2 mm |
| Litz wires Min. cross section (Power contacts) | 0.25 mm² |
| Litz wires Max. cross section (Power contacts) | 4 mm² |
| Rated current Contact (Power contacts) | 30 A (for max. connection cross section) |
| Rated voltage Contact (Power contacts) | 630 V AC (Overvoltage category III/3) |
| | 850 V DC (Overvoltage category II/3) |
| Rated surge voltage | 6 kV |
| Degree of pollution | 3 |
| Number (Data contacts) | 4 |
| Diameter (External cable diameter / Data contacts) | max. 1.55 mm (Outer cable sheath) |
| Contact diameter (Data contacts) | 0.8 mm |
| Litz wires Max. cross section (Data contacts) | 0.5 mm² |
| Rated current Contact (Data contacts) | 3.6 A (for max. connection cross section) |
| Rated voltage Contact (Data contacts) | 50 V AC/DC (Contact 5 ... 8) |
| Rated surge voltage | 1.5 kV |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Number (Signal contacts) | 4 |
| Diameter (External cable diameter / Signal contacts) | max. 2.1 mm (Outer cable sheath) |
| Contact diameter (Signal contacts) | 1 mm |
| Litz wires Max. cross section (Signal contacts) | 1 mm² |
| Rated current Contact (Signal contacts) | 8 A (for max. connection cross section) |
| Rated voltage Contact (Signal contacts) | 50 V AC/DC (Contact 1 ... 4) |
| Rated surge voltage | 1.5 kV |
| Overvoltage category | III |
| Degree of pollution | 3 |

Housing

| | |
|---|---|
| Notes on operation | The suitability for assembly must be checked when fully assigned with maximum wire cross sections. |
| Type | Cable connector housing |
| Thread type | M23 |
| Design | straight long |
| Type of locking | SPEEDCON |
| | Knurl tightening torque >1 Nm |
| Pg screw connection | none |
| Material (Housing) | Metal |
| Material (Screw connection) | Metal |
| Degree of protection (plugged in) | IP67 |
| | IP68 |
| | IP69K |

Seal

| | |
|---|---|
| External cable diameter | 11.7 mm ... 15 mm |

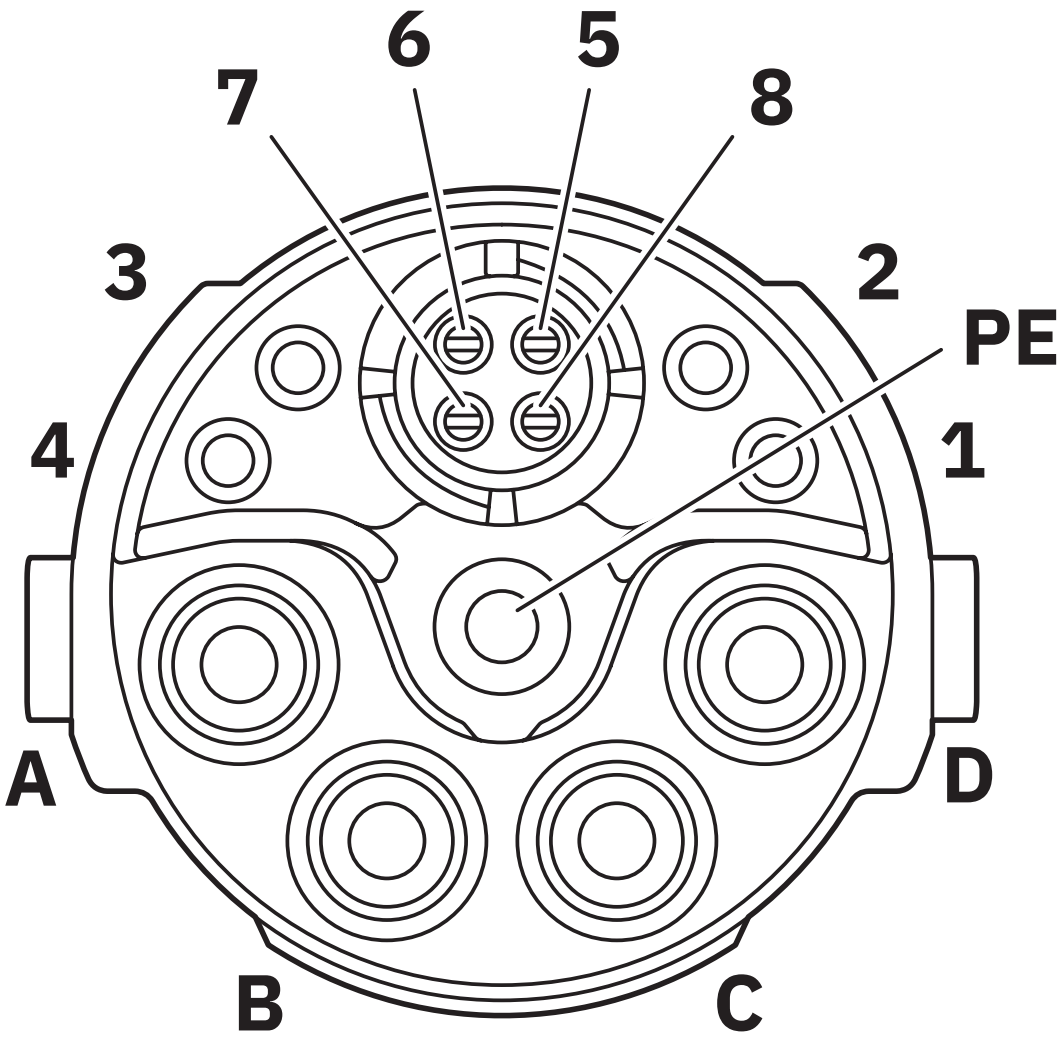
## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 115 °C (see derating curve) |

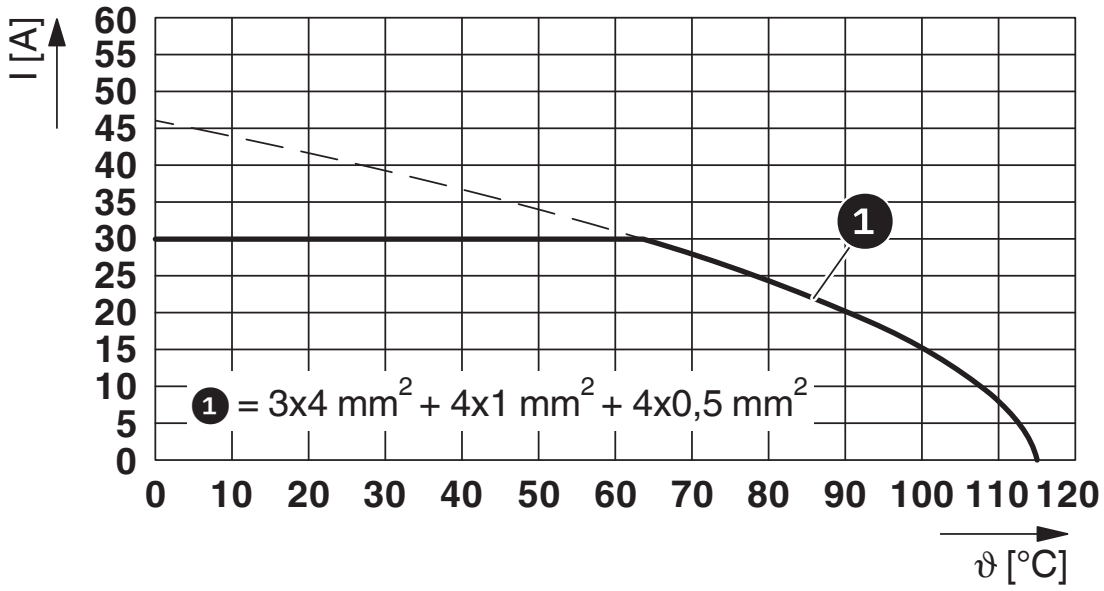
## Drawings

Schematic diagram




Socket pin assignment, CAT5

Diagram




I = current strength, ϑ = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1621522

**cUL Recognized**
Approval ID: E153698-20181206

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 21.4 A | 12 | - |
| Control | 50 V | 4 A | 18 | - |

**UL Recognized**
Approval ID: E153698-20181206

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 24 A | 12 | - |
| Control | 50 V | 4 A | 18 | - |

**cULus Recognized**
Approval ID: E468743

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 16 A | - | - |
| Signal | 50 V | 4 A | - | - |
| Data | 30 V | 1 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, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

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


Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com



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