

SH-8EPC58A9LB4S - Coupler connector



1621550

<https://www.phoenixcontact.com/us/products/1621550>

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M23, Coupler connector, series: SH, straight long, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 4+4+4+PE / 3+N+PE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 7.5 mm ... 9 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244446

Your advantages

- Transmission of signals, data, and power in just a single connector
- CAT5 data interface for up to 100 Mbps
- 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 | 1621550 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB33 |
| Product key | ABRCDG |
| Catalog page | Page 119 (C-2-2019) |
| GTIN | 4046356936989 |
| Weight per piece (including packing) | 109.4 g |
| Weight per piece (excluding packing) | 109.4 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

Notes

Safety note

| | |
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| Safety note | <p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> |
| | <ul style="list-style-type: none">• 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. |
| | <ul style="list-style-type: none">• 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. |
| | <ul style="list-style-type: none">• The products are suitable for applications in plant, controller, and electrical device engineering. |
| | <ul style="list-style-type: none">• When operating the connectors in outdoor applications, they must be separately protected against environmental influences. |
| | <ul style="list-style-type: none">• Assembled products may not be manipulated or improperly opened. |
| | <ul style="list-style-type: none">• 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 phoenixcontact.com/products). |
| | <ul style="list-style-type: none">• When using the product in direct connection with third-party manufacturers, the user is responsible. |
| | <ul style="list-style-type: none">• For operating voltages > 50 V AC, conductive connector housings must be grounded |
| | <ul style="list-style-type: none">• Ensure that the protective or functional ground has been properly connected. |
| | <ul style="list-style-type: none">• 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 |
| | <ul style="list-style-type: none">• Only use tools recommended by Phoenix Contact |
| | <ul style="list-style-type: none">• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product. |
| | <ul style="list-style-type: none">• Operate the connector only when it is fully plugged in and interlocked. |
| <ul style="list-style-type: none">• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards. | |
| <ul style="list-style-type: none">• Observe the minimum bending radius of the cable. Lay the cable without twisting it. | |
| <ul style="list-style-type: none">• 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). | |

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Product properties

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|--------------|---------------------------------|
| Product type | Circular connector (cable-side) |
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Connector

Insulating body

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| 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 |
| Coding | N |
| Insulation body material | PA 6.6 |
| Insertion/withdrawal cycles | 100 |
| Connection method | Crimp connection |
| Contact switching type | Pin |
| Application | Hybrid |
| Number of positions | 13 |
| Direction of rotation | Standard |
| Connection profile | 4+4+4+PE / 3+N+PE |
| Contact diameter Power contacts | 2 mm |
| Litz wire cross-section Power contacts min. | 0.25 mm ² |
| Litz wire cross-section Power contacts max. | 4 mm ² |
| Rated current Power contacts | 30 A |
| Note | for max. connection cross section |
| Rated surge voltage | 6 kV |
| Rated voltage (II/3) power contact | 850 V DC |
| Rated voltage (III/3) power contact | 630 V AC |
| Contact diameter Signal contacts | 1 mm |
| Litz wire cross-section Signal contacts min. | 0.06 mm ² |
| Litz wire cross-section Signal contacts max. | 1 mm ² |
| Nominal current per signal contact | 8 A |
| Note | for max. connection cross section |
| Rated surge voltage | 1.5 kV |
| Rated voltage (III/3) signal contact | 50 V |
| Contact diameter Data contacts | 0.8 mm |
| Litz wire cross-section Data contacts min. | 0.08 mm ² |
| Litz wire cross-section Data contacts max. | 0.5 mm ² |
| Rated current per data contact at 25°C | 3.6 A |
| Note | for max. connection cross section |
| Rated voltage Data contacts | 50 V |
| Rated surge voltage | 1.5 kV |

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|---------------------|--------|
| Installation height | 2000 m |
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Housing

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| Note | The suitability for assembly must be checked when fully assigned with maximum wire cross sections. |
| Housing material | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Type of locking | for standard and SPEEDCON interlock |
| Pg screw connection | none |
| Degree of protection (plugged in) | IP67 IP68 |
| Thread type | M23 |

Seal

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|-------------------------|-----------------|
| External cable diameter | 7.5 mm ... 9 mm |
| Seal material | FKM |

Environmental and real-life conditions

Ambient conditions

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| Ambient temperature (operation) | -40 °C ... 115 °C (see derating curve) |
| Ambient temperature (storage/transport) | 15 °C ... 25 °C |
| Permissible humidity (storage/transport) | 50 % ... 65 % |

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Classifications

ECLASS

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|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

ETIM

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| ETIM 9.0 | EC002635 |
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UNSPSC

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| UNSPSC 21.0 | 39121400 |
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Environmental product compliance

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|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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