

SH-8EPC58AH000S - Device connector rear mounting



1627205

<https://www.phoenixcontact.com/us/products/1627205>

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CAT5



M23, Device connector rear mounting, application: Hybrid, series: SH, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 4+4+4+PE / 3+N+PE, CAT5, 100 Mbps, contact connection type: Pin, Crimp connection, Panel thickness min.: 1.5 mm, Panel thickness max.: 5 mm

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

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 | 1627205 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB33 |
| Product key | ABRCDR |
| GTIN | 4055626408200 |
| Weight per piece (including packing) | 78.7 g |
| Weight per piece (excluding packing) | 58.283 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 |
|--------------------|---|

Safety note

| | |
|---|--|
| 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 | |

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warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

| | |
|--------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Series | SH |
| Application | Hybrid |

Material specifications

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Electrical properties

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

Mechanical properties

Mechanical data

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

Connector

Connection 1

| | |
|-------------|-----|
| Head design | Pin |
|-------------|-----|

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 |
| Flammability rating according to UL 94 | V0 |
| Insertion/withdrawal cycles | 100 |
| Connection method | Crimp connection |
| Contact switching type | Pin |
| 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 60664-1) |
| Number (Power contacts) | 5 |
| Diameter (Litz wire outer 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 mm ² |
| Litz wires Max. cross section (Power contacts) | 4 mm ² |
| 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) |

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| | |
|--|---|
| 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 mm ² |
| 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 | II, 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 mm ² |
| 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

| | |
|-----------------------------------|-------------------------------------|
| Type | Feed-through header |
| Thread type | M23 |
| Design | straight |
| Type of locking | for standard and SPEEDCON interlock |
| Mounting type | Rear wall/screw mounting (M26 x 1) |
| Assembly note | Central fastening |
| Housing material | CuZn |
| Degree of protection (plugged in) | IP67 |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Ambient temperature (operation) | -40 °C ... 115 °C (see derating curve) |
| Altitude | 2000 m |
| Permissible humidity (storage/transport) | 50 % ... 65 % |

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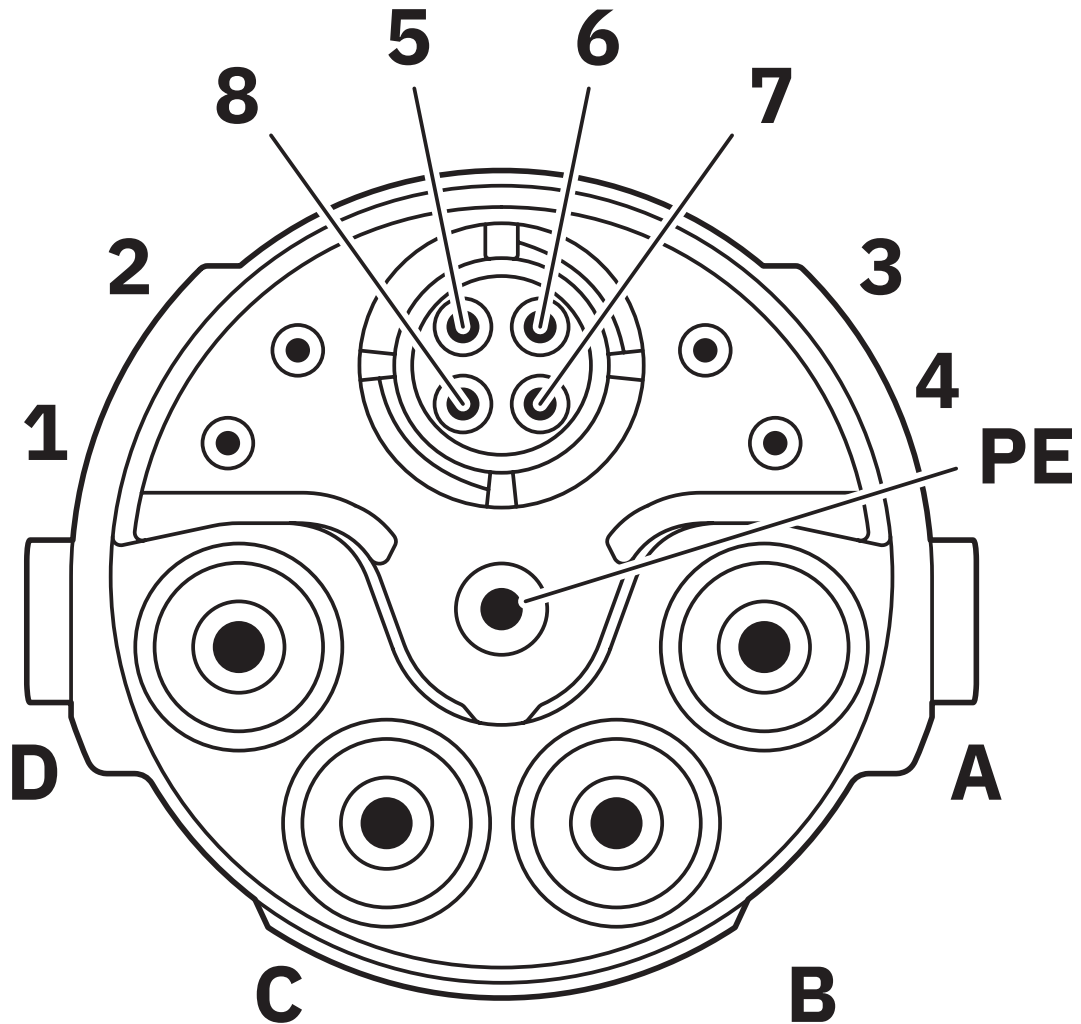
Drawings

Dimensional drawing



Installation dimensions

Schematic diagram



Pin assignment of pin, CAT5

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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



I = current strength, ϑ = ambient temperature, power contacts A-D: 2.5 mm², 4 x 20 A, signal contacts 1-4: 0.5 mm², 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

Diagram



- ① = Power: A-B, 2,5 mm², 2x22 A
- = Power: C-D, 2,5 mm², 2x13 A (constant)
- = Signal: 1-4, 0,5 mm², 4x2 A (constant)
- = Data: 5-8, AWG22, 4x1 A (constant)

I = current strength, ϑ = ambient temperature, power contacts A-B: 2.5 mm², 2 x 22 A, power contacts C-D: 2.5 mm², 2 x 13 A (constant), signal contacts 1-4: 0.5 mm², 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

Diagram



I = current strength, ϑ = ambient temperature, power contacts A-C: 2.5 mm², 3 x 36 A, signal contacts 1-4: 0.5 mm², 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

ETIM

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|-----------|----------|
| ETIM 10.0 | EC003569 |
|-----------|----------|

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

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|--|--|
| 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% |
|-------------------------------------|----------------------------|

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