

SH-8EPD68A8LB2S - Cable connector



1157072

<https://www.phoenixcontact.com/nl/products/1157072>

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M23, Cable connector, series: SH, straight long, shielded: yes, SPEEDCON, No. of pos.: 6+4+4+PE, 6-pos. data element, contact connection type: Pin, Crimp connection, cable diameter range: 12 mm ... 15 mm, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

The figure shows a version with 4-pos. data element.

Your advantages

- Transmission of signals, data, and power in just a single connector
- 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	1157072
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ABRCDB
Product key	ABRCDB
GTIN	4063151161774
Weight per piece (including packing)	139,5 g
Weight per piece (excluding packing)	122,591 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Order information:	Crimp contacts, 6x Ø 0.6 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately
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Safety note

Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. • 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. • 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. • The products are suitable for applications in plant, controller, and electrical device engineering. • When operating the connectors in outdoor applications, they must be separately protected against environmental influences. • Assembled products may not be manipulated or improperly opened. • 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). • When using the product in direct connection with third-party manufacturers, the user is responsible. • For operating voltages > 50 V AC, conductive connector housings must be grounded • Ensure that the protective or functional ground has been properly connected. • 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 • Only use tools recommended by Phoenix Contact • The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product. • Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products • Operate the connector only when it is fully plugged in and interlocked. • Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards. • Observe the minimum bending radius of the cable. Lay the
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cable without twisting it.

- 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).

Product properties

Application

Hybrid

Mechanical properties

Mechanical data

Insertion/withdrawal cycles

100

Connector

Insulating body

Note

Order information: Crimp contacts, 6x Ø 0.6 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately

Protection against electric shock

IEC 61984 and VDE 0623

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

15

Connection profile

6+4+4+PE, 6-pos. data element

Installation height

2000 m (4000 m at 300 V system voltage in accordance with DIN EN 60664-1)

Number Contact (Power contacts)

4

Diameter Contact (Power contacts)

2 mm

Litz wire cross-section min. Contact (Power contacts)

0.25 mm²

Litz wire cross-section max. Contact (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 Contact (Data contacts)

6

Diameter Contact (Data contacts)

0.6 mm

Litz wire cross-section min. Contact (Data contacts)

0.08 mm²

Litz wire cross-section max. Contact (Data contacts)

0.25 mm²

Rated current Contact (Data contacts)

3.6 A (for max. connection cross section)

Rated voltage Contact (Data contacts)

50 V AC/DC

Rated surge voltage

1.5 kV

Overvoltage category

III

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Degree of pollution	3
Number Contact (Contact group 3)	4
Diameter Contact (Contact group 3)	1 mm
Litz wire cross-section min. Contact (Contact group 3)	0.06 mm²
Litz wire cross-section max. Contact (Contact group 3)	1 mm²
Rated current Contact (Contact group 3)	8 A (for max. connection cross section)
Rated voltage Contact (Contact group 3)	50 V AC/DC
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
Housing material	Metal
Material for screw connection	Metal
Degree of protection (plugged in)	IP67 IP68 IP69K

Seal

External cable diameter	12 mm ... 15 mm
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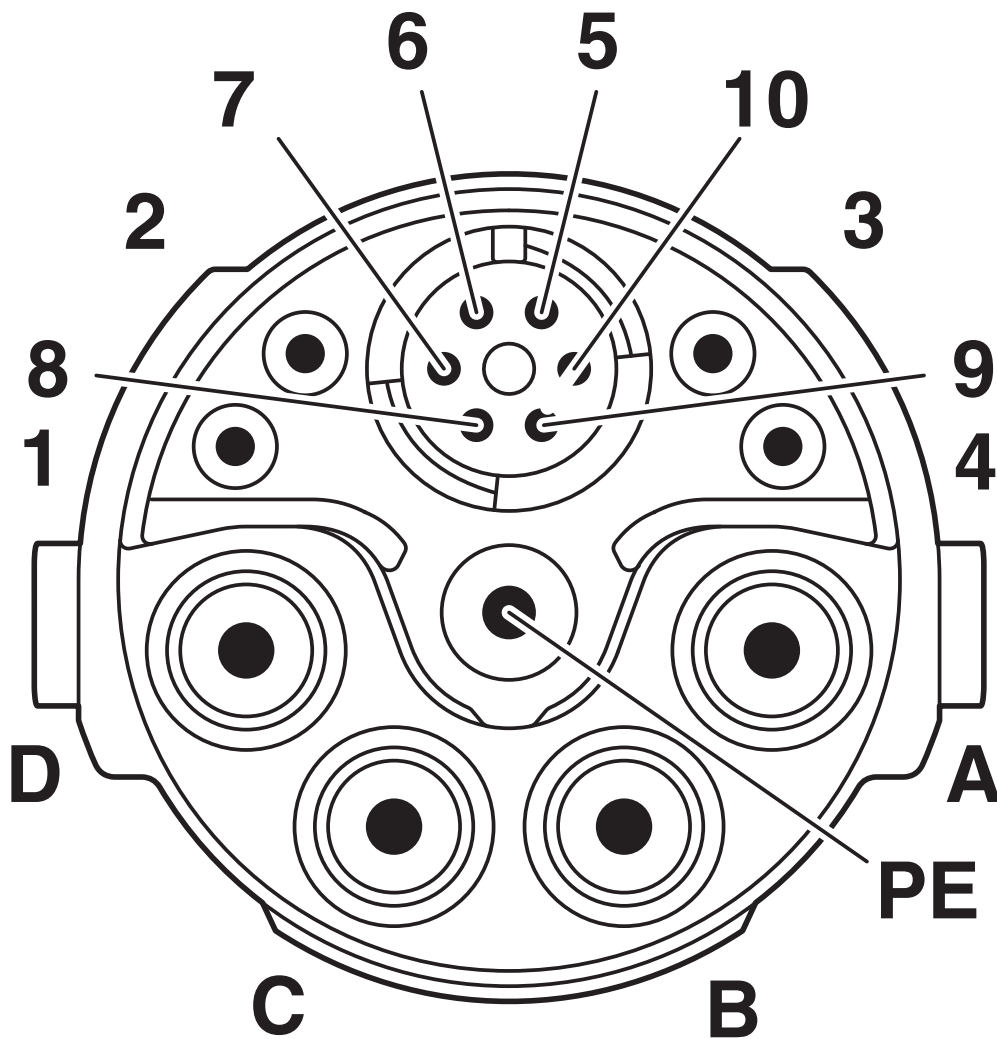
Environmental and real-life conditions

Ambient conditions

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

Drawings

Schematic diagram



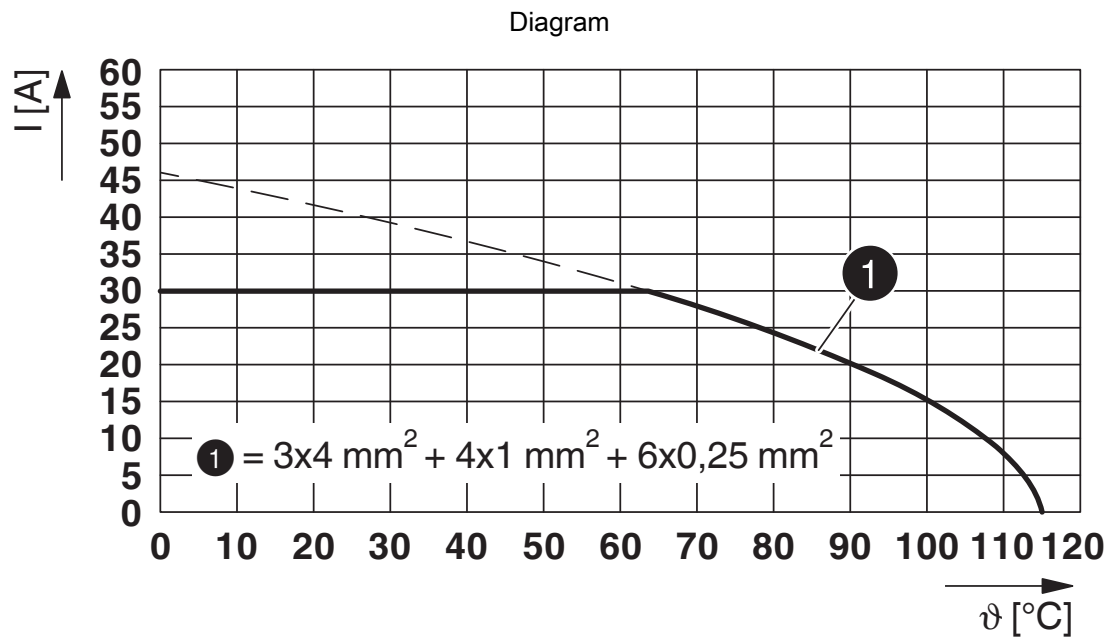
Pin assignment of pin

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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: 6 x 1 A constant

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1157072>

 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	-

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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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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	eb3d0943-22d1-4866-b6fb-4f16ef0fc3a2

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