

SH-8ESD68A9LB2SX - Coupler connector



1568962

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M23, Coupler connector, series: SH, straight long, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 6+4+4+PE, 6-pos. data element, contact connection type: Socket, Crimp connection, cable diameter range: 12 mm ... 15 mm

Your advantages

- Transmission of signals, data, and power in just a single connector
- Shielded 6-pos. data interface
- 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	1568962
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRCDG
GTIN	4067923055261
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
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	<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.• 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.• 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 cable without twisting it.• 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 connector (cable-side)

Connector

Connection 1

Head design

Socket

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

Insulation body material

PA 6.6

Insertion/withdrawal cycles

100

Connection method

Crimp connection

Contact switching type

Socket

Application

Hybrid

Number of positions

15

Connection profile

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

Contact diameter **Power contacts**

2 mm

Litz wire cross-section **Power contacts** min.

0.25 mm²

Litz wire cross-section **Power contacts** max.

4 mm²

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 mm²

Litz wire cross-section **Signal contacts** max.

1 mm²

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

0.6 mm

Litz wire cross-section Data contacts min.

0.08 mm²

Litz wire cross-section Data contacts max.

0.25 mm²

Rated current per data contact at 25°C

2 A

Note

for max. connection cross section

Rated voltage Data contacts

50 V

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Rated surge voltage	1.5 kV
Installation height	2000 m

Housing

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

External cable diameter	12 mm ... 15 mm
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Classifications

ECLASS

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

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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%

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