# SH-8EPC58A8LB1 - Cable connector



https://www.phoenixcontact.com/us/products/1622011

**PHŒNIX** CONTACT

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M23, Cable connector, series: SH, straight long, shielded: yes, Screw locking mechanism, No. of pos.: 4+4+4+PE / 3+N+PE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 15 mm ... 18 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244513

## 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	1622011
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCDA
Catalog page	Page 118 (C-2-2019)
GTIN	4055626011851
Weight per piece (including packing)	138.2 g
Weight per piece (excluding packing)	120 g
Customs tariff number	85366990
Country of origin	DE

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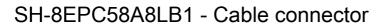
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## Technical data

### Notes

Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper us may damage persons and/or property.
	<ul> <li>WARNING: Commission properly functioning products only The products must be regularly inspected for damage.</li> <li>Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> </ul>
	<ul> <li>WARNING: Only electrically qualified personnel may install operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basic electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indica that only personnel familiar with electrical engineering are allowed to install and operate the product.</li> </ul>
	The products are suitable for applications in plant, controlle and electrical device engineering.
	<ul> <li>When operating the connectors in outdoor applications, the must be separately protected against environmental influence</li> </ul>
	<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul> <li>Only use mating connectors that are specified in the technic data of the standards listed (e.g. the ones listed in the produc accessories online at phoenixcontact.com/products).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
	VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14 are applicable when combining several circuits in a cable and connector
	Only use tools recommended by Phoenix Contact
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
	<ul> <li>Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>
	Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	<ul> <li>The connector warms up in normal operation. Depending o ambient conditions, the surface of the connector can continu warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).</li> </ul>



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### Product properties

Product type	Circular connector (cable-side)
nnector	
nsulating 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
Coding	Ν
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 <sup>2</sup>
Litz wire cross-section Power contacts max.	4 mm <sup>2</sup>
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 <sup>2</sup>
Litz wire cross-section Signal contacts max.	1 mm <sup>2</sup>
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 <sup>2</sup>
Litz wire cross-section Data contacts max.	0.5 mm <sup>2</sup>
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
busing	
Notes on operation	Full occupation with 5 x 4 mm <sup>2</sup> for cable and coupler connectors not possible.
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn)
Type of locking	Screw locking mechanism
Pg screw connection	none
Degree of protection (plugged in)	IP67
	IP68
Thread type	M23
al	
External cable diameter	15 mm 18 mm

#### Environmental and real-life conditions

Ambient conditions	
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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