

# SH-8EPC58A8LB4S - Cable connector



1621530  
<https://www.phoenixcontact.com/us/products/1621530>

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M23, Cable connector, series: SH, straight long, shielded: yes, SPEEDCON, 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.: 1244426

## 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	1621530
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCDB
Catalog page	Page 118 (C-2-2019)
GTIN	4046356936538
Weight per piece (including packing)	134.2 g
Weight per piece (excluding packing)	134.1 g
Customs tariff number	85366990
Country of origin	DE

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1621530

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## Technical data

### Notes

#### 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](https://www.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](https://www.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 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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1621530

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## Product properties

Product type	Circular connector (cable-side)
Data management status	
Article revision	13

## Connector

### 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
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 <b>Power contacts</b>	2 mm
Litz wire cross-section <b>Power contacts</b> min.	0.25 mm <sup>2</sup>
Litz wire cross-section <b>Power contacts</b> max.	4 mm <sup>2</sup>
Rated current <b>Power contacts</b>	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 <b>Signal contacts</b>	1 mm
Litz wire cross-section <b>Signal contacts</b> min.	0.06 mm <sup>2</sup>
Litz wire cross-section <b>Signal contacts</b> 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 <b>Data contacts</b>	0.8 mm
Litz wire cross-section <b>Data contacts</b> min.	0.08 mm <sup>2</sup>
Litz wire cross-section <b>Data contacts</b> max.	0.5 mm <sup>2</sup>
Rated current per data contact at 25°C	3.6 A
Note	for max. connection cross section

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1621530

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Rated voltage Data contacts	50 V
Rated surge voltage	1.5 kV
Installation height	2000 m

## Housing

Notes on operation	The suitability for assembly must be checked when fully assigned with maximum wire cross sections.
Housing material	Metal
Type of locking	SPEEDCON
Pg screw connection	none
Degree of protection (plugged in)	IP67
	IP68
	IP69K
Thread type	M23

## Seal

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

## 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 %

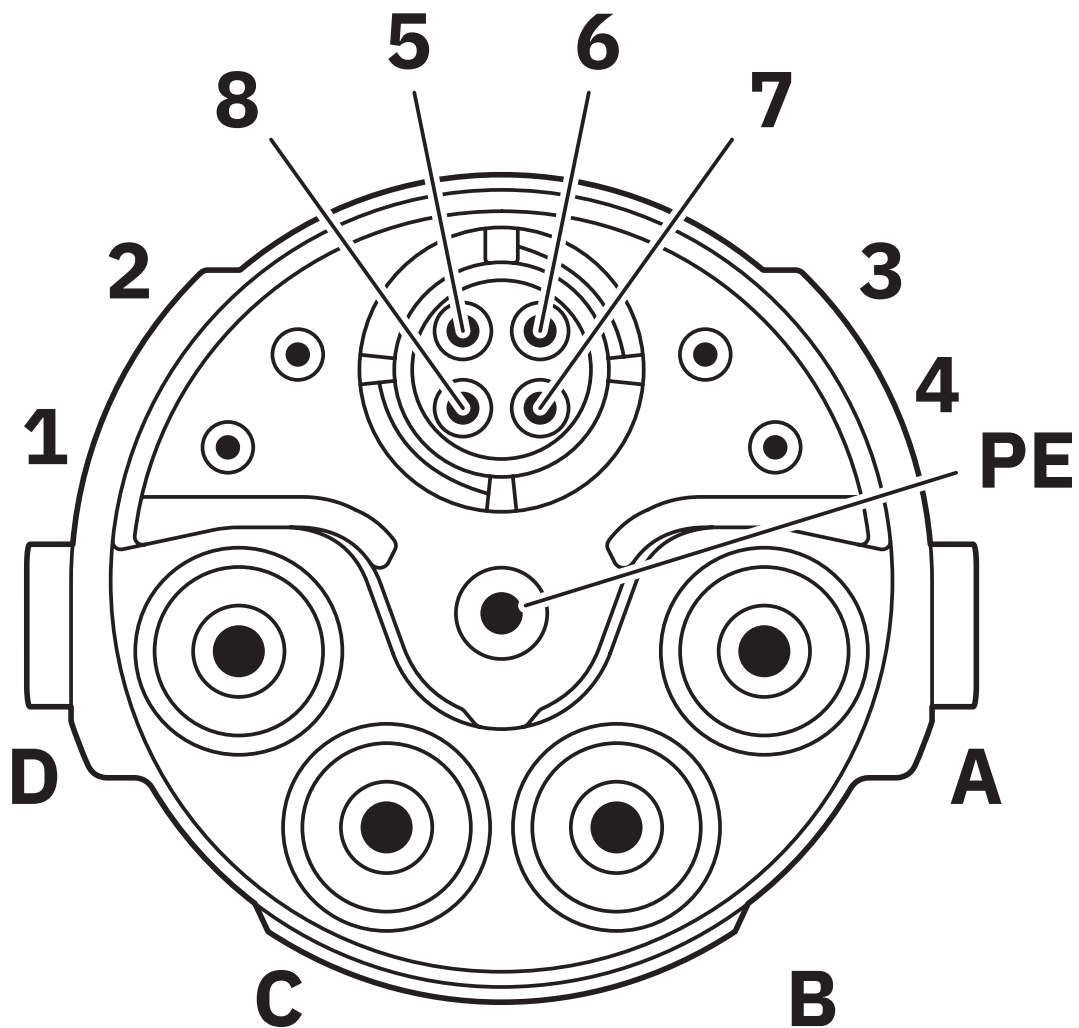
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1621530

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## Drawings

Schematic diagram



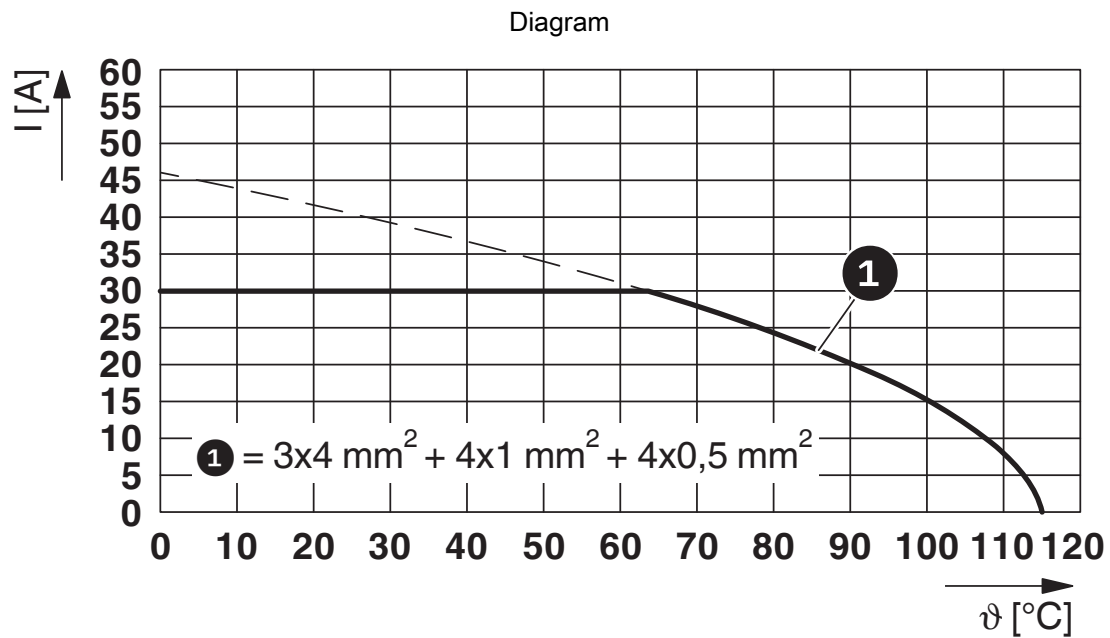
Pin assignment of pin, CAT5

# SH-8EPC58A8LB4S - Cable connector



1621530

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$I$  = current strength,  $\vartheta$  = 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

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1621530

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1621530>

cUL Recognized Approval ID: E153698-20181206				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Power	600 V	21.4 A	12 - 12	-
Control	50 V	4 A	18 - 18	-

UL Recognized Approval ID: E153698-20181206				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Power	600 V	24 A	12 - 12	-
Control	50 V	4 A	18 - 18	-

cULus Recognized				
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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	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	4f025eed-0caa-4ab2-8b66-81183a397ff7

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1621530

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## Accessories

### SF-Z0068 - Square mounting flange

1620927

<https://www.phoenixcontact.com/us/products/1620927>



Square mounting flange, 4xM3, flange dimensions: 38 mm x 38 mm, series: SF, SH, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244326

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### KC-88014311/1,00 - Hybrid cable

1623127

<https://www.phoenixcontact.com/us/products/1623127>



Hybrid cable, cable length: 1 m, shielded: yes, color of outer sheath: orange RAL 2003

## SH-8EPC58A8LB4S - Cable connector

1621530

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### KC-88014311/100,00 - Hybrid cable

1623039

<https://www.phoenixcontact.com/us/products/1623039>

Hybrid cable, cable length: 100 m, shielded: yes, color of outer sheath: orange  
RAL 2003



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### KC-88014311/20,00 - Hybrid cable

1622080

<https://www.phoenixcontact.com/us/products/1622080>

Hybrid cable, cable length: 20 m, shielded: yes, color of outer sheath: orange  
RAL 2003



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1621530

<https://www.phoenixcontact.com/us/products/1621530>



## M23 HYBRID\_CONTACT-SAMPLE-SET - Sample set

1623252

<https://www.phoenixcontact.com/us/products/1623252>



Sample set consisting of 4x Ø 1.0 mm, 4x Ø 0.8 mm, 5x Ø 2.0 mm socket and pin contacts for M23 hybrid connectors. Contacts included: 1621573, 1618464, 1621577, 1621575, 1618458, 1621580

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## SF-Z0028 - Torque screwdriver

1607456

<https://www.phoenixcontact.com/us/products/1607456>



Torque screwdriver, series: RC, UC, SH, SF

## SH-8EPC58A8LB4S - Cable connector

1621530

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## SH-Z0077 - Metal protective cap

1627226

<https://www.phoenixcontact.com/us/products/1627226>



Metal protective cap, degree of protection: IP67, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245449

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## SH-Z2300 - Metal protective cap

1622141

<https://www.phoenixcontact.com/us/products/1622141>



Metal protective cap, degree of protection: IP67, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244542

## SH-8EPC58A8LB4S - Cable connector

1621530

<https://www.phoenixcontact.com/us/products/1621530>



## PROT-M23-PW-IT-IP20 - Plastic protective cap

1577207

<https://www.phoenixcontact.com/us/products/1577207>

Plastic protective cap, M23, degree of protection: IP20, series: SH, SF



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## ST-10KP010 - Crimp contact

1618255

<https://www.phoenixcontact.com/us/products/1618255>

Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm<sup>2</sup> ... 0.25 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215



## SH-8EPC58A8LB4S - Cable connector



1621530

<https://www.phoenixcontact.com/us/products/1621530>

### ST-10KP035 - Crimp contact

1618458

<https://www.phoenixcontact.com/us/products/1618458>



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.25 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

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### SF-20KP021 - Crimp contact

1621579

<https://www.phoenixcontact.com/us/products/1621579>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.25 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244464

# SH-8EPC58A8LB4S - Cable connector



1621530

<https://www.phoenixcontact.com/us/products/1621530>

## SF-20KP022 - Crimp contact

1621580

<https://www.phoenixcontact.com/us/products/1621580>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244464

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## SF-20KP023 - Crimp contact

1621581

<https://www.phoenixcontact.com/us/products/1621581>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 2.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244465



# SH-8EPC58A8LB4S - Cable connector



1621530

<https://www.phoenixcontact.com/us/products/1621530>

## SF-08KP010 - Crimp contact

1621574

<https://www.phoenixcontact.com/us/products/1621574>



Crimp contact, Pin, turned, contact diameter: 0.8 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.25 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244458

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## SF-08KP020 - Crimp contact

1621575

<https://www.phoenixcontact.com/us/products/1621575>



Crimp contact, Pin, turned, contact diameter: 0.8 mm, crimp range: 0.34 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244459

# SH-8EPC58A8LB4S - Cable connector



1621530

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## SF-Z0064 - Color coding

1620585

<https://www.phoenixcontact.com/us/products/1620585>

Color coding, color: green



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## SF-Z0065 - Color coding

1620586

<https://www.phoenixcontact.com/us/products/1620586>

Color coding, color: orange



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1621530

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## SF-Z0066 - Color coding

1620587

<https://www.phoenixcontact.com/us/products/1620587>

Color coding, color: black



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