

SB-8EPCA8A9L33S - Coupler connector



1623357

<https://www.phoenixcontact.com/us/products/1623357>

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M40, Coupler connector, series: SB, straight long, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 4+4+4+PE / 3+N+PE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 14 mm ... 20.5 mm, coding: CAT5, coding 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244876

Your advantages

- Transmission of signals, data, and power in just a single connector
- CAT5 data interface for up to 100 Mbps
- Mechanical coding reliably prevents incorrect connections
- 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	1623357
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCEG
Catalog page	Page 127 (C-2-2019)
GTIN	4055626194684
Weight per piece (including packing)	488.5 g
Weight per piece (excluding packing)	480 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Order information:	Crimp contacts, 4 x Ø 0.8 mm, 4 x Ø 1 mm, 5 x Ø 3.6 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• 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• Observe the corresponding technical data. You will find information:<ul style="list-style-type: none">o On the producto On the packing labelo In the supplied documentationo Online at phoenixcontact.com/products under the product• 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
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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).

Product properties

Product type

Circular connector (cable-side)

Data management status

Article revision

10

Connector

Insulating body

Data rate

100 Mbps

Coding

CAT5, coding 1

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**

3.6 mm

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

2.5 mm²

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

16 mm²

Rated current **Power contacts**

70 A

Note

for max. connection cross section

Rated surge voltage

6 kV

Overvoltage category

III

Degree of pollution

3

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.

1.5 mm²

Nominal current per signal contact

8 A

Note

for max. connection cross section

Rated voltage Signal contact

500 V

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Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Rated voltage (III/3) signal contact	500 V
Contact diameter Data contacts	0.8 mm
Litz wire cross-section Data contacts min.	0.08 mm ²
Litz wire cross-section Data contacts max.	0.5 mm ²
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
Installation height	2000 m

Housing

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)	IP68/IP69K
Thread type	M40

Seal

External cable diameter	14 mm ... 20.5 mm
Seal material	FKM

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 115 °C (see derating curve)
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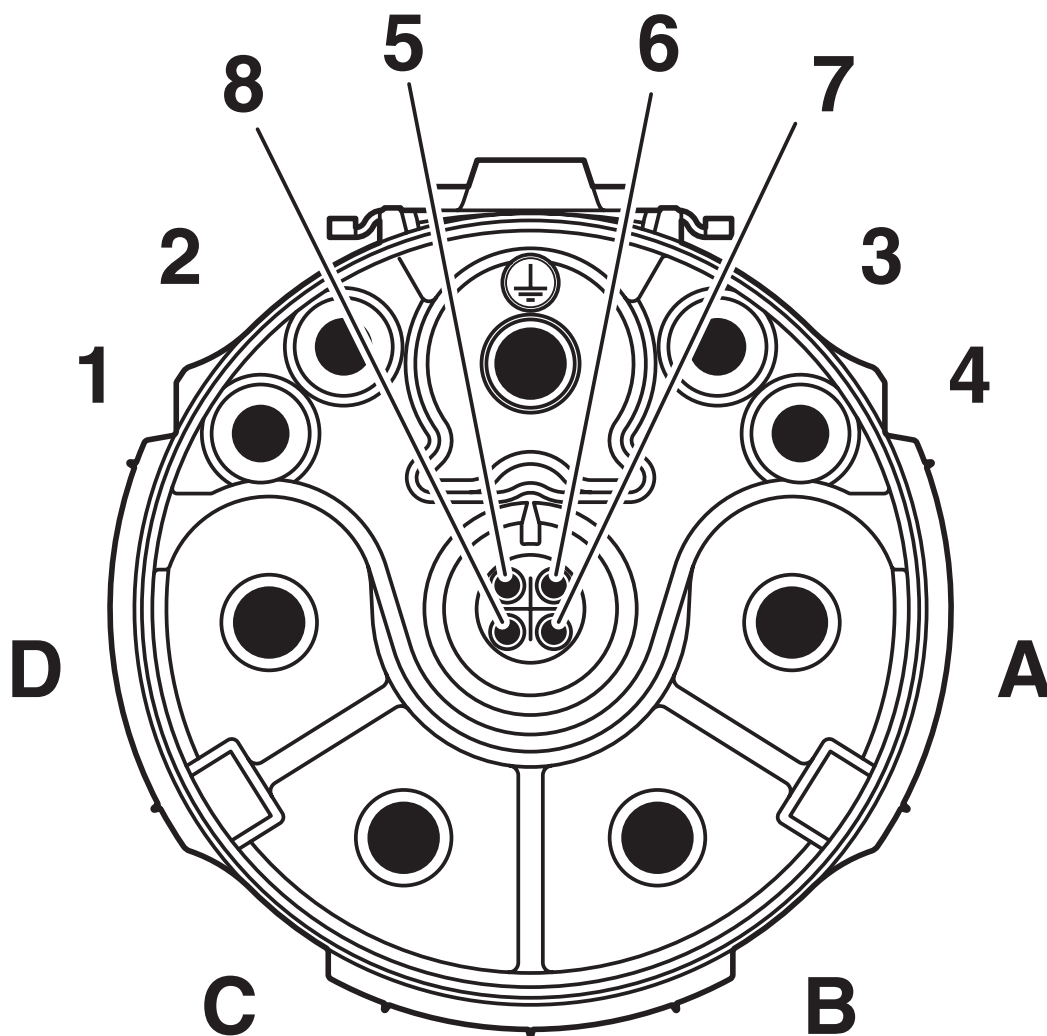
SB-8EPCA8A9L33S - Coupler connector

1623357

<https://www.phoenixcontact.com/us/products/1623357>

Drawings

Schematic diagram



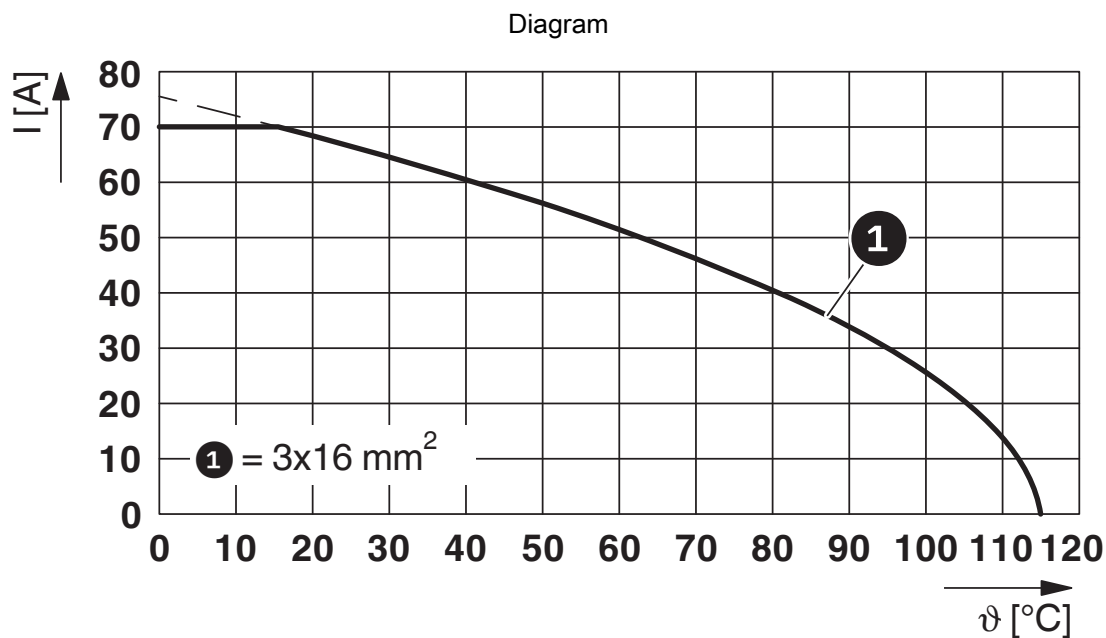
Pin assignment of pin CAT5, coding 1

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1623357

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I = current strength, ϑ = ambient temperature, power contacts A–C: 3x up to 70 A, signal contacts: 4x 2 A constant, data contacts: no load

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1623357

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1623357>

cUL Recognized Approval ID: E468743-20170914				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	42 A	- 6	-
Signal	500 V	4 A	- 16	-
Data	30 V	1 A	- 22	-

UL Recognized Approval ID: E468743-20170914				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	50 A	- 6	-
Signal	500 V	4 A	- 16	-
Data	30 V	1 A	- 22	-

UL Recognized Approval ID: E153698-20190718				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	70 A	-	-
Signal	500 V	4 A	-	-
Data	50 V	1 A	-	-

cUL Recognized Approval ID: E153698-20190718				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	28 A	-	-
Signal	500 V	4 A	-	-
Data	50 V	1 A	-	-

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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(b), 6(b)-II
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	2bc556a6-4322-4494-85f7-9da1c28f4efe

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