SB-8EPSD8A8L34S - Cable connector

1623697

https://www.phoenixcontact.com/be/products/1623697

PHŒNIX CONTACT

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

M40, Cable connector, series: SB, straight long, shielded: yes, SPEEDCON, No. of pos.: 8+4+PE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 20.5 mm ... 26.5 mm, coding: Signal, coding 2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244948

Your advantages

- All housing can be fitted with pin or socket contacts
- A total of eight contacts are available for signal transmission
- Reduced connection time with SPEEDCON fast locking system
- 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	1623697
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	ABRCEB
Product key	ABRCEB
Catalog page	Page 126 (C-2-2019)
GTIN	4055626194387
Weight per piece (including packing)	440,9 g
Weight per piece (excluding packing)	440,9 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Crimp contacts, 8 x Ø 1 mm, 5 x Ø 3.6 mm, order separately

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
	• 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: o On the product o On the packing label o In the supplied documentation o 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 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	11

Connector

Insulating body

Coding	Signal, coding 2
Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Connection profile	8+4+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 voltage	630 V AC
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 surge voltage	6 kV
Rated voltage (III/3) signal contact	500 V
Contact diameter Data contacts	1 mm
Litz wire cross-section Data contacts min.	0.06 mm²

Litz wire cross-section Data contacts max.	1.5 mm²
Rated current per data contact at 25°C	8 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	SPEEDCON
Pg screw connection	none
Degree of protection (plugged in)	IP68/IP69K
Thread type	M40

Seal

External cable diameter	20.5 mm ... 26.5 mm
Seal material	FKM

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 115 °C (see derating curve)

Drawings

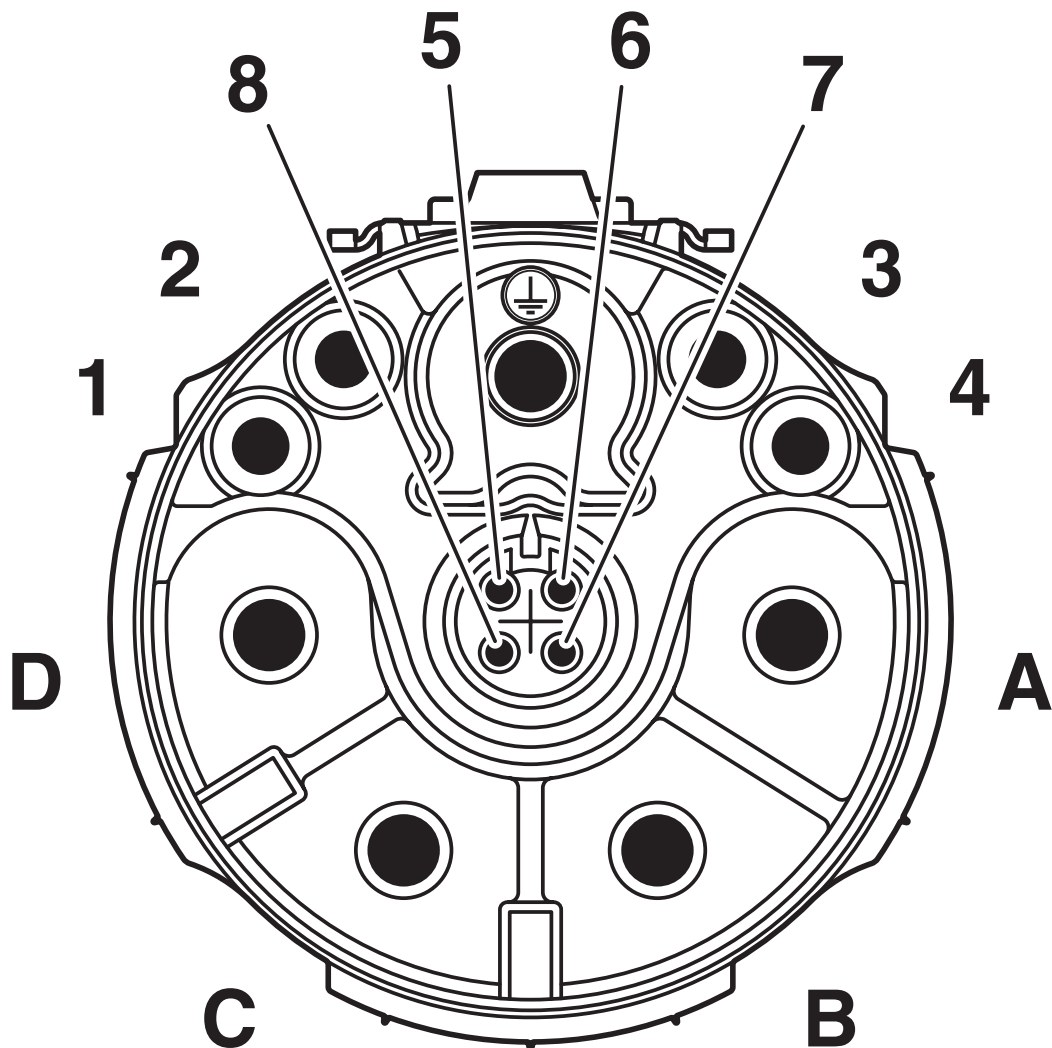Schematic diagram

Pin assignment of pin signal, coding 2

Diagram

1 = 3x16 mm^2
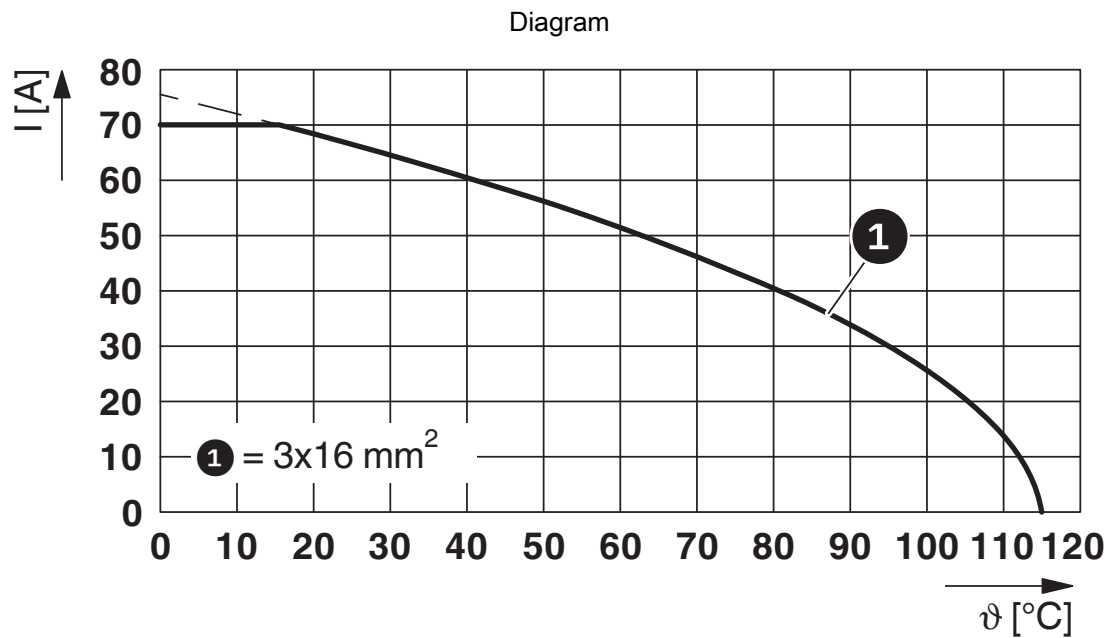
I = current strength, ϑ = ambient temperature, power contacts A–C: 3x up to 70 A, signal contacts: 4x 2 A constant, data contacts: no load

SB-8EPSD8A8L34S - Cable connector

1623697

https://www.phoenixcontact.com/be/products/1623697

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/be/products/1623697

cUL Recognized
Approval ID: E153698-20190718

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	24 A	6 - 16	-
Signal	500 V	4 A	1,5 - 1,5	-
Data	50 V	1 A	0,34 - 0,34	-

UL Recognized
Approval ID: E153698-20190718

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	32 A	6 - 16	-
Signal	500 V	4 A	1,5 - 1,5	-
Data	50 V	1 A	0,34 - 0,34	-

cULus Recognized

SB-8EPSD8A8L34S - Cable connector

1623697

https://www.phoenixcontact.com/be/products/1623697

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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	78e0da84-7fe1-4b72-970e-e1ba4a902da6

SB-8EPSD8A8L34S - Cable connector

1623697

https://www.phoenixcontact.com/be/products/1623697

Accessories

ST-10KP010 - Crimp contact

1618255

https://www.phoenixcontact.com/be/products/1618255

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

ST-10KP035 - Crimp contact

1618458

https://www.phoenixcontact.com/be/products/1618458

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

SB-8EPSD8A8L34S - Cable connector

1623697

https://www.phoenixcontact.com/be/products/1623697

SM-Z0003 - Square mounting flange with O-ring

1607935

https://www.phoenixcontact.com/be/products/1607935

Square mounting flange with O-ring, Axial O-ring, 4x Ø4,2, series: SM

SM-Z0004 - Square mounting flange

1607937

https://www.phoenixcontact.com/be/products/1607937

Square mounting flange, 4x Ø4,2, series: SM

SB-8EPSD8A8L34S - Cable connector

1623697

https://www.phoenixcontact.com/be/products/1623697

PROT-M40-PW-IT-IP20 - Plastic protective cap

1577213

https://www.phoenixcontact.com/be/products/1577213

Plastic protective cap, M40, degree of protection: IP20, series: SM, SB

SB-10KP001 - Crimp contact

1623607

https://www.phoenixcontact.com/be/products/1623607

Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.06 mm^2 ... 0.25 mm^2

SB-8EPSD8A8L34S - Cable connector

1623697

https://www.phoenixcontact.com/be/products/1623697

SB-10KP002 - Crimp contact

1623611

https://www.phoenixcontact.com/be/products/1623611

Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.34 mm^2 ... 0.5 mm^2

SB-10KP003 - Crimp contact

1623612

https://www.phoenixcontact.com/be/products/1623612

Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm^2 ... 1 mm^2

SB-10KP004 - Crimp contact

1623613

https://www.phoenixcontact.com/be/products/1623613

Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 1 mm^2 ... 1.5 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244925

SB-36KP002 - Crimp contact

1623383

https://www.phoenixcontact.com/be/products/1623383

Crimp contact, Pin, turned, contact diameter: 3.6 mm, crimp range: 2.5 mm^2 ... 4 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244894

SB-8EPSD8A8L34S - Cable connector

SB-36KP003 - Crimp contact

Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: 4 mm^2 ... 6 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244894

SB-36KP004 - Crimp contact

Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: 10 mm^2 ... 10 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244895

SB-8EPSD8A8L34S - Cable connector

1623697

https://www.phoenixcontact.com/be/products/1623697

SB-36KP005 - Crimp contact

1623386

https://www.phoenixcontact.com/be/products/1623386

Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: 16 mm^2 ... 16 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244896

SM-Z0025 - Color coding

1620558

https://www.phoenixcontact.com/be/products/1620558

Color coding, color: green

SB-8EPSD8A8L34S - Cable connector

1623697

https://www.phoenixcontact.com/be/products/1623697

SM-Z0026 - Color coding

1620559

https://www.phoenixcontact.com/be/products/1620559

Color coding, color: orange
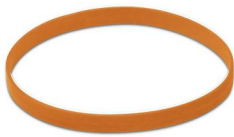
SM-Z0027 - Color coding

1620560

https://www.phoenixcontact.com/be/products/1620560

Color coding, color: black