

SB-8EP0A8A8L34S - Cable connector



1627076

<https://www.phoenixcontact.com/pc/products/1627076>

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M40, Cable connector, series: SB, straight long, shielded: yes, SPEEDCON, No. of pos.: 4+4+PE / 3+N+PE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 20.5 mm ... 26.5 mm, coding: Signal, coding 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1245429

Your advantages

- 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	1627076
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRCEB
GTIN	4055626298771
Weight per piece (including packing)	452.1 g
Weight per piece (excluding packing)	452.1 g
Customs tariff number	85366990
Country of origin	DE

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

- 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](https://www.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](https://www.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](https://www.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.

SB-8EP0A8A8L34S - Cable connector



1627076

<https://www.phoenixcontact.com/pc/products/1627076>

	<ul style="list-style-type: none"> • 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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Product properties

Product type	Circular connector (cable-side)
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Connector

Insulating body

Coding	Signal, coding 1
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	9
Direction of rotation	Standard
Connection profile	4+4+PE / 3+N+PE
Contact diameter Power contacts	3.6 mm
Litz wire cross-section Power contacts min.	2.5 mm ²
Litz wire cross-section Power contacts max.	16 mm ²
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 mm ²
Litz wire cross-section Signal contacts max.	1.5 mm ²
Nominal current per signal contact	8 A
Note	for max. connection cross section
Rated voltage Signal contact	500 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Rated voltage (III/3) signal contact	500 V

SB-8EP0A8A8L34S - Cable connector



1627076

<https://www.phoenixcontact.com/pc/products/1627076>

Installation height	2000 m
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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)
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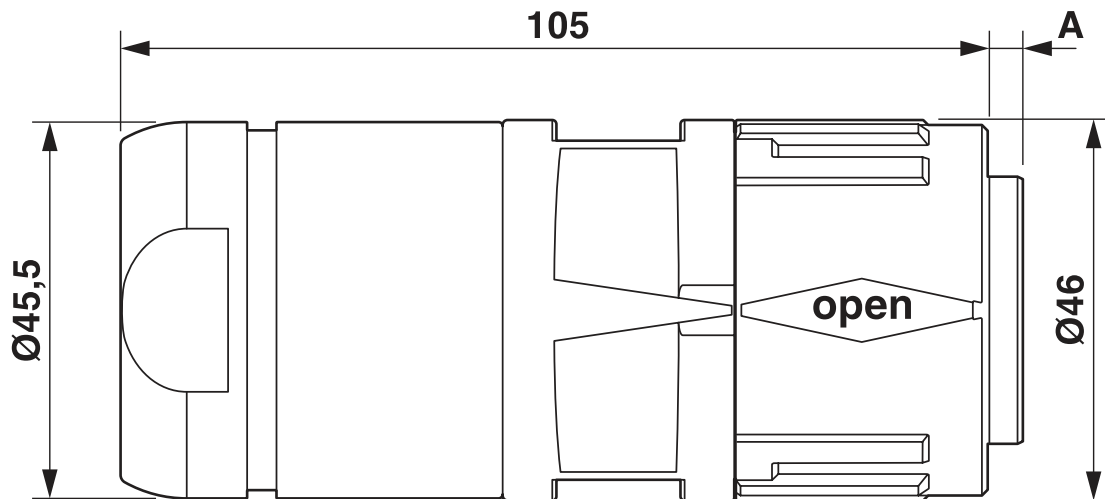
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1627076

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Drawings

Dimensional drawing



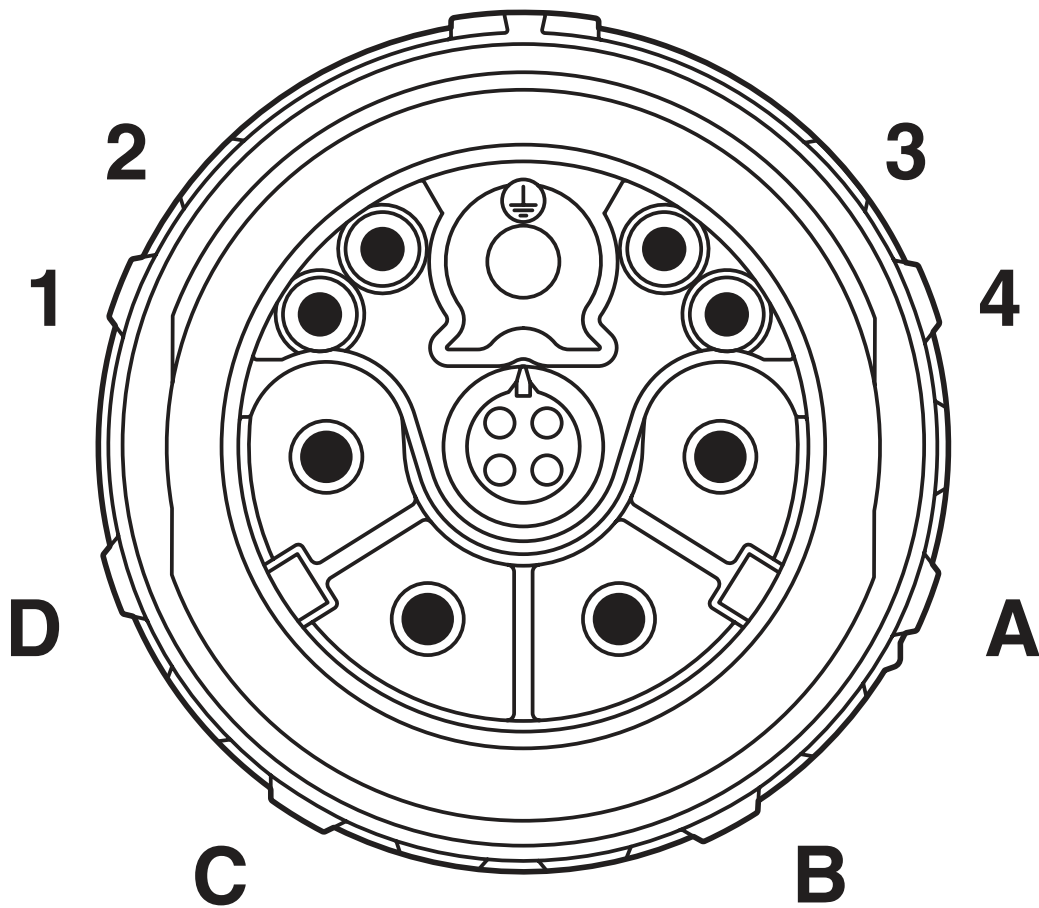
Pin version: dimension A = 4.05 mm, socket version: dimension A = 0.4 mm

SB-8EP0A8A8L34S - Cable connector

1627076

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Schematic diagram



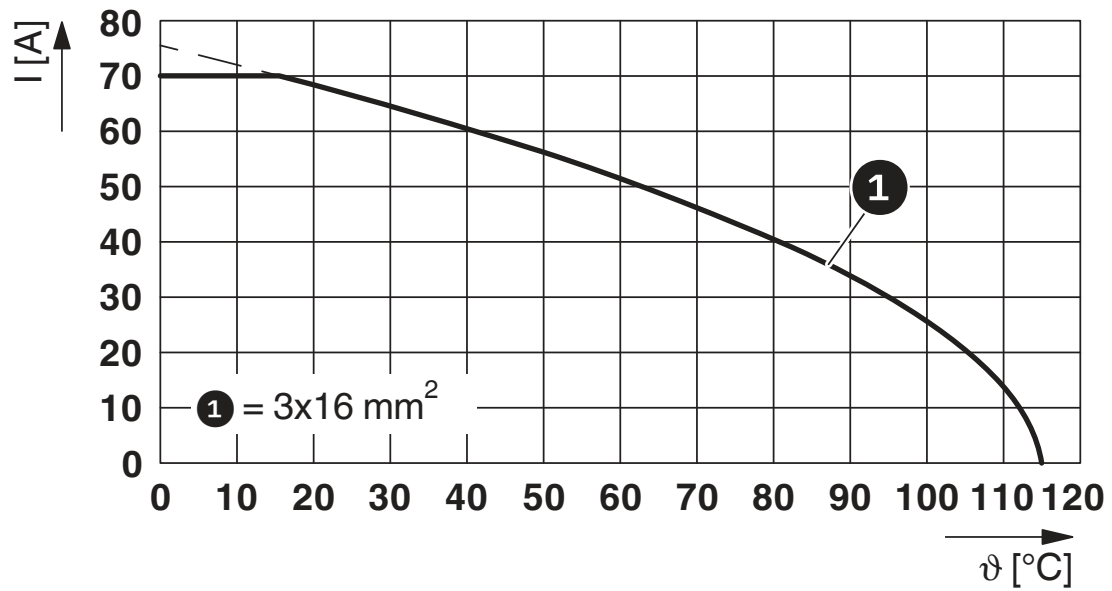
Pin assignment of pin

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1627076

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Diagram



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-8EP0A8A8L34S - Cable connector





1627076


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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1627076>

 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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1627076

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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SB-8EP0A8A8L34S - Cable connector



1627076

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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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1627076

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Accessories

SF-08KP010 - Crimp contact

1621574

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



Crimp contact, Pin, turned, contact diameter: 0.8 mm, crimp range: 0.08 mm² ... 0.25 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244458

SF-08KP020 - Crimp contact

1621575

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



Crimp contact, Pin, turned, contact diameter: 0.8 mm, crimp range: 0.34 mm² ... 0.5 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244459

SB-8EP0A8A8L34S - Cable connector

1627076

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SM-Z0031 - Protective cap

1624199

<https://www.phoenixcontact.com/pc/products/1624199>



Plastic protection cap for connectors with M40 SPEEDCON knurled nut

KC-88014448/1,00 - Hybrid cable

1627298

<https://www.phoenixcontact.com/pc/products/1627298>



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

SB-8EP0A8A8L34S - Cable connector

1627076

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KC-88014448/20,00 - Hybrid cable

1627299

<https://www.phoenixcontact.com/pc/products/1627299>

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



KC-88014450-01,00 - Hybrid cable

1629279

<https://www.phoenixcontact.com/pc/products/1629279>

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



SB-8EP0A8A8L34S - Cable connector

1627076

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KC-88014450-50,00 - Hybrid cable

1629280

<https://www.phoenixcontact.com/pc/products/1629280>

Hybrid cable, cable length: 50 m, shielded: yes, color of outer sheath: orange RAL 2003



SM-Z0003 - Square mounting flange with O-ring

1607935

<https://www.phoenixcontact.com/pc/products/1607935>

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



SB-8EP0A8A8L34S - Cable connector

1627076

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SM-Z0004 - Square mounting flange

1607937

<https://www.phoenixcontact.com/pc/products/1607937>



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

SB-10KP001 - Crimp contact

1623607

<https://www.phoenixcontact.com/pc/products/1623607>



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.06 mm² ... 0.25 mm²

SB-8EP0A8A8L34S - Cable connector

1627076

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SB-10KP002 - Crimp contact

1623611

<https://www.phoenixcontact.com/pc/products/1623611>



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.34 mm² ... 0.5 mm²

SB-10KP003 - Crimp contact

1623612

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Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm² ... 1 mm²

SB-8EP0A8A8L34S - Cable connector

1627076

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SB-10KP004 - Crimp contact

1623613

<https://www.phoenixcontact.com/pc/products/1623613>



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 1 mm² ... 1.5 mm², 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/pc/products/1623383>



Crimp contact, Pin, turned, contact diameter: 3.6 mm, crimp range: 2.5 mm² ... 4 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244894

SB-8EP0A8A8L34S - Cable connector

1627076

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SB-36KP003 - Crimp contact

1623384

<https://www.phoenixcontact.com/pc/products/1623384>



Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: 4 mm² ... 6 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244894

SB-36KP004 - Crimp contact

1623385

<https://www.phoenixcontact.com/pc/products/1623385>



Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: 10 mm² ... 10 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244895

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SB-36KP005 - Crimp contact

1623386

<https://www.phoenixcontact.com/pc/products/1623386>



Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: 16 mm² ... 16 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244896

SM-Z0025 - Color-coding

1620558

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Color-coding, color: green



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1627076

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SM-Z0026 - Color-coding

1620559

<https://www.phoenixcontact.com/pc/products/1620559>

Color-coding, color: orange



SM-Z0027 - Color-coding

1620560

<https://www.phoenixcontact.com/pc/products/1620560>

Color-coding, color: black



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