

Cable connector - SB-8EPCA8A8L33S



1623333

<https://www.phoenixcontact.com/pc/products/1623333>

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Cable connector, SB, straight long, shielded: yes, SPEEDCON locking, M40, No. of pos.: 4+4+4+PE / 3+N+PE, Direction of rotation: Standard, type of contact: Pin, Crimp connection, cable diameter range: 14 mm ... 20.5 mm, coding:CAT5, coding 1

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 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

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Commercial Data

Item number	1623333
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Product Key	ABRCGH
Catalog Page	Page 126 (C-2-2019)
GTIN	4055626194172
Weight per Piece (including packing)	448 g
Weight per Piece (excluding packing)	448 g
Customs tariff number	85366990
Country of origin	DE

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.
	<ul style="list-style-type: none"> • 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.
	<ul style="list-style-type: none"> • The products are suitable for applications in plant, controller, and electrical device engineering.
	<ul style="list-style-type: none"> • When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	<ul style="list-style-type: none"> • Assembled products may not be manipulated or improperly opened.
	<ul style="list-style-type: none"> • 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).
	<ul style="list-style-type: none"> • When using the product in direct connection with third-party manufacturers, the user is responsible.
	<ul style="list-style-type: none"> • For operating voltages > 50 V AC, conductive connector housings must be grounded
	<ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • Observe the corresponding technical data. You will find information: <ul style="list-style-type: none"> o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	<ul style="list-style-type: none"> • Only use tools recommended by Phoenix Contact
	<ul style="list-style-type: none"> • The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Operate the connector only when it is fully plugged in and interlocked. 	
<ul style="list-style-type: none"> • 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.
	<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).

Product properties

Product type	Circular connector (cable-side)
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Ambient conditions

Ambient temperature (operation)	-40 °C ... 115 °C (see derating curve)
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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 type	Pin
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Connection profile	4+4+4+PE / 3+N+PE
Contact diameter	3.6 mm
Max. cross section	16 mm ² 16 mm ²
Note	for max. connection cross section for max. connection cross section
Rated surge voltage	6 kV 6 kV
Overvoltage category	III III
Degree of pollution	3 3
Rated voltage (II/3) power contact	850 V DC 850 V DC
Rated voltage (III/3) power contact	630 V AC

Housing

Type of locking	SPEEDCON locking
Thread type	M40
Degree of protection	IP68/IP69K

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Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Seal	
Seal material	FKM
External cable diameter	14 mm ... 20.5 mm

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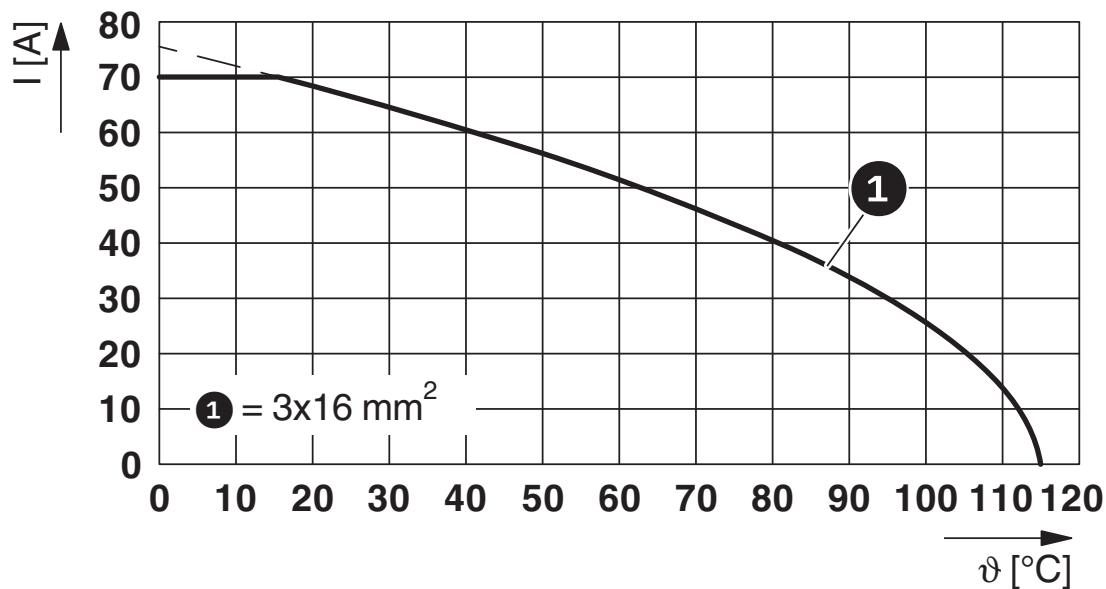


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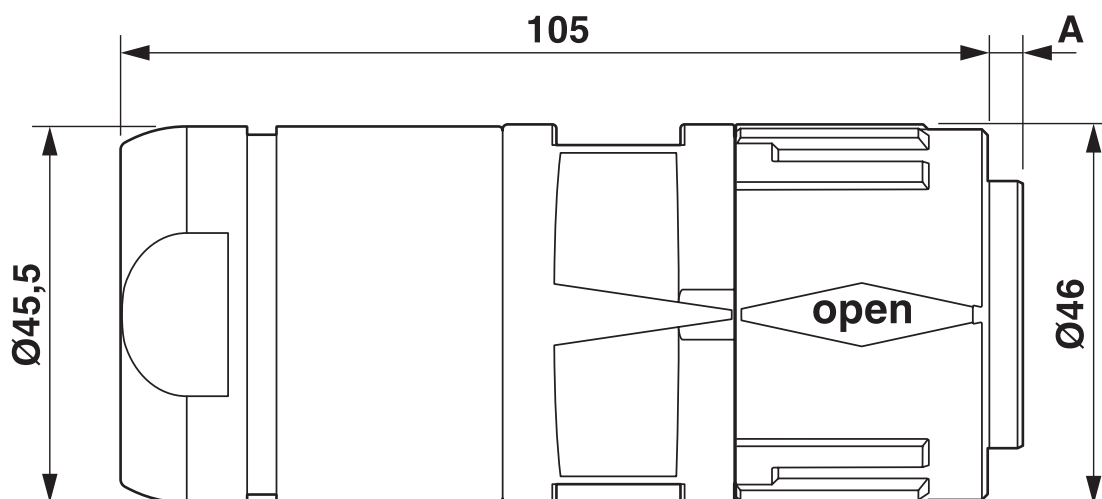
Drawings

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

Dimensional drawing



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


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Approvals

 cUL Recognized Approval ID: 20170915-E468743				
	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: 20170915-E468743				
	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	-

 EAC Approval ID: B.01687	
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cULus Recognized

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Classifications

ECLASS

ECLASS-9.0	27440102
ECLASS-10.0.1	27440102
ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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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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Accessories

Crimp contact

Crimp contact - SF-08KP010 - 1621574

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



Crimp contact, turned, contact diameter: 0.8 mm, crimp range: 0.08 mm² ... 0.25 mm²

Crimp contact

Crimp contact - SB-10KP001 - 1623607

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



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

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Crimp contact

Crimp contact - SF-08KP020 - 1621575

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



Crimp contact, turned, contact diameter: 0.8 mm, crimp range: 0.34 mm² ... 0.5 mm²

Crimp contact

Crimp contact - SB-10KP002 - 1623611

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



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

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Protective cap

Protective cap - SM-Z0031 - 1624199

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Plastic protection cap for connectors with M40 SPEEDCON knurled nut



Crimp contact

Crimp contact - SB-10KP003 - 1623612

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



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Hybrid cable

Hybrid cable - KC-88014448/1,00 - 1627298

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

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



Crimp contact

Crimp contact - SB-10KP004 - 1623613

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Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 1 mm² ... 1.5 mm²



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Hybrid cable

Hybrid cable - KC-88014448/20,00 - 1627299

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

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



Crimp contact

Crimp contact - SB-36KP002 - 1623383

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Crimp contact, turned, contact diameter: 3.6 mm, crimp range: 2.5 mm² ... 4 mm²



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Hybrid cable

Hybrid cable - KC-88014450-01,00 - 1629279

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

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



Crimp contact

Crimp contact - SB-36KP003 - 1623384

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Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 4 mm² ... 6 mm²



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Hybrid cable

Hybrid cable - KC-88014450-50,00 - 1629280

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

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



Crimp contact

Crimp contact - SB-36KP004 - 1623385

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Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 10 mm² ... 10 mm²



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Square mounting flange with O-ring

Square mounting flange with O-ring - SM-Z0003 - 1607935

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



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

Crimp contact

Crimp contact - SB-36KP005 - 1623386

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



Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 16 mm² ... 16 mm²

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Square mounting flange

Square mounting flange - SM-Z0004 - 1607937

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



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

Color-coding

Color-coding - SM-Z0025 - 1620558

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Color-coding, color: green

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Color-coding

Color-coding - SM-Z0026 - 1620559

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

Color-coding, color: orange



Color-coding

Color-coding - SM-Z0027 - 1620560

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

Color-coding, color: black



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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com