SB-8EP6A8A8L32S - Cable connector

1314970

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The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

M40, Cable connector, application: Hybrid, series: SB, straight long, shielded: yes, SPEEDCON, No. of pos.: 6+4+4+PE, 6-pos. data element, contact connection type: Pin, Crimp connection, cable diameter range: 9 mm ... 14 mm, coding: Coding 1, this item is expected to be lead-free from Q4 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Your advantages

- Transmission of signals, data, and power in just a single connector
- 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	1314970
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	ABRCEB
Product key	ABRCEB
GTIN	4063151570972
Weight per piece (including packing)	374.867 g
Weight per piece (excluding packing)	374.867 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Crimp contacts, 6x Ø 0.6 mm, 4x Ø 1 mm, 5x Ø 3.6 mm, order separately

Product properties

Product type	Circular connector (cable-side)

Connector

Insulating body

Data rate	100 Mbps
Coding	Coding 1
Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	15
Connection profile	6+4+4+PE, 6-pos. data element
Installation height	2000 m (4000 m at 300 V system voltage in accordance with DIN EN 606664-1)
Number (Power contacts)	5
Contact diameter (Power contacts)	3.6 mm
Litz wires Min. cross section (Power contacts)	2.5 mm²
Litz wires Max. cross section (Power contacts)	16 mm²
Rated current Contact (Power contacts)	70 A (at an ambient temperature of 15°C, see derating curve)
Rated voltage Contact (Power contacts)	630 V AC (Overvoltage category III/3)
	850 V DC (Overvoltage category II/3)
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Number (Data contacts)	6
Contact diameter (Data contacts)	0.8 mm
Litz wires Max. cross section (Data contacts)	0.5 mm²
Rated current Contact (Data contacts)	2 A (for max. connection cross section)
Rated voltage Contact (Data contacts)	50 V AC/DC (Contact 5 ... 10)
Rated surge voltage	1.5 kV
Overvoltage category	II, III
Degree of pollution	3
Number (Signal contacts)	4
Contact diameter (Signal contacts)	1 mm
Litz wires Max. cross section (Signal contacts)	1.5 mm²
Rated current Contact (Signal contacts)	8 A (for max. connection cross section)
Rated voltage Contact (Signal contacts)	500 V AC/DC (Contact 1 ... 4)

Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Cable connector housing
Thread type	M40
Design	straight long
Type of locking	SPEEDCON
Pg screw connection	none
Material (Housing)	CuZn (Rotating parts)
	GD-Zn (Die-cast parts)
Material (Screw connection)	CuZn
Degree of protection (plugged in)	IP68/IP69K

Seal

External cable diameter	9 mm ... 14 mm
Seal material	FKM

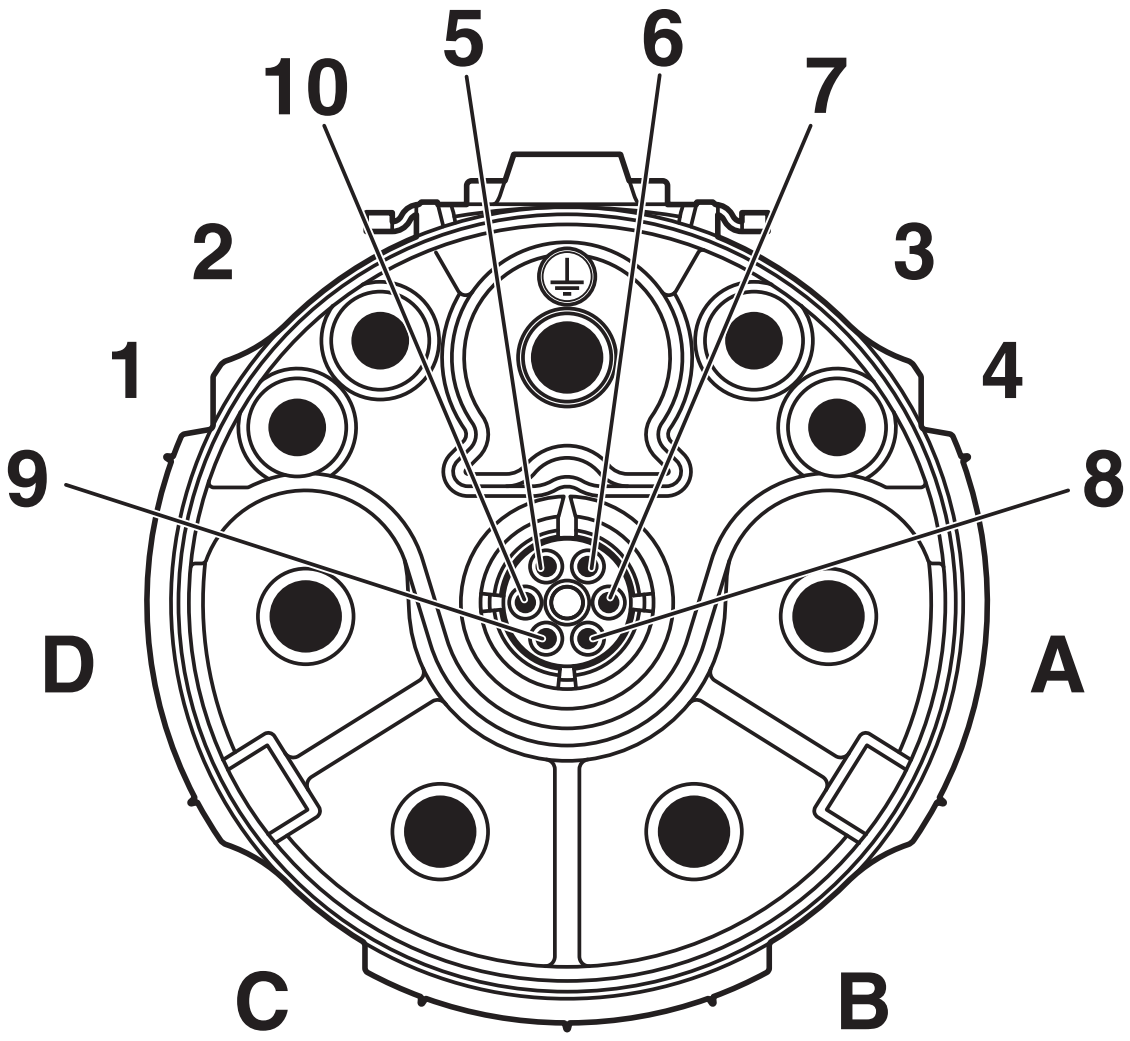
Environmental and real-life conditions

Ambient conditions

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

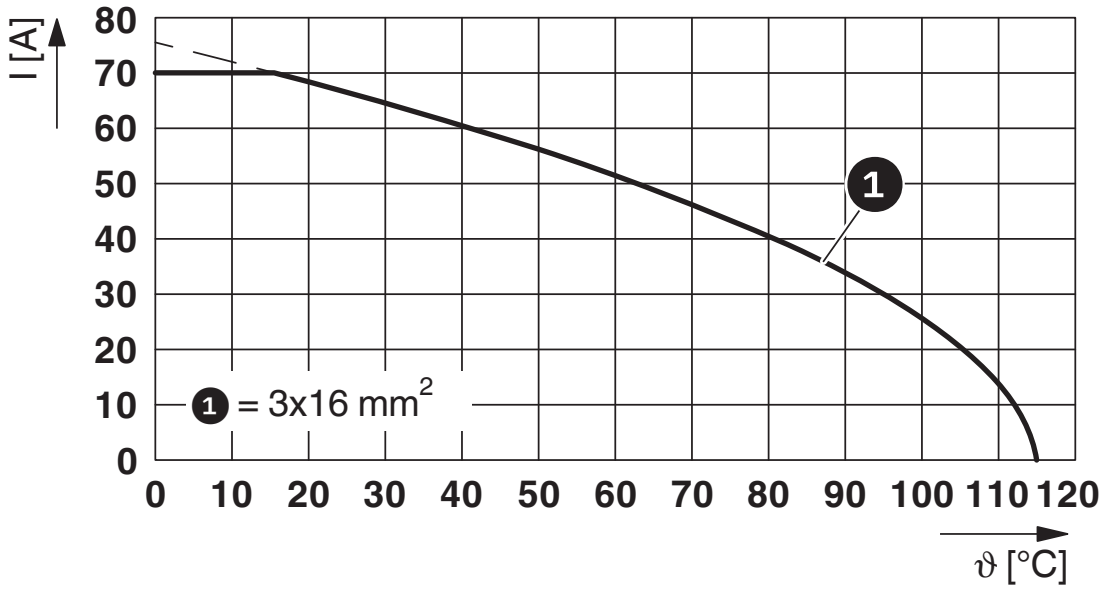
Drawings

Schematic diagram



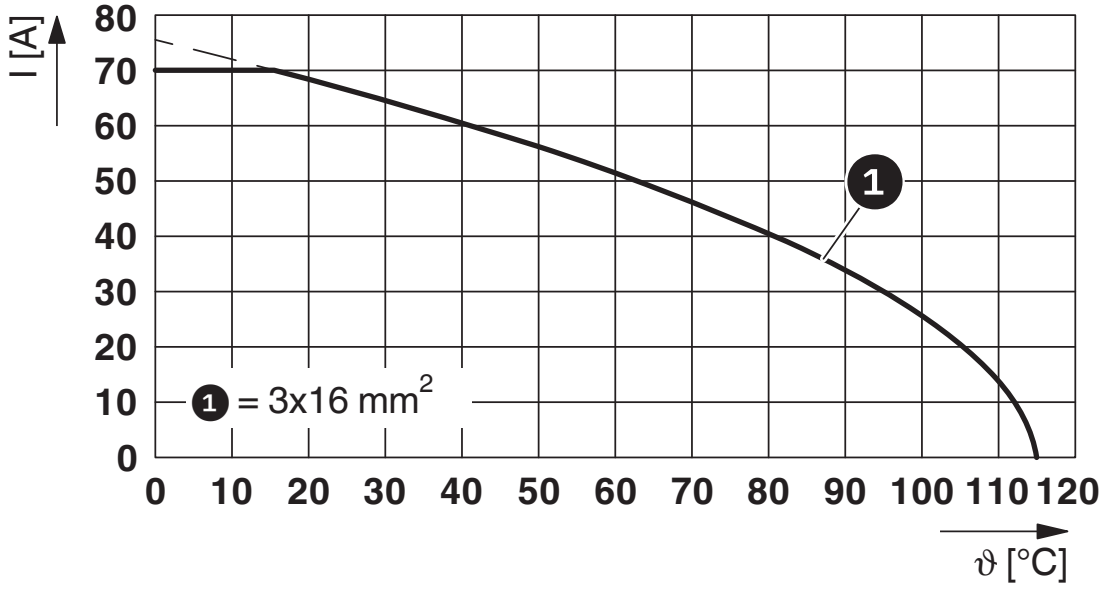
Male pin assignment, 6-pos. data insert

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

Diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1314970

cUL Recognized
Approval ID: E153698-20190718

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	24 A	6	-
Signal	500 V	4 A	1,5	-
Data	50 V	1 A	0,25	-

UL Recognized
Approval ID: E153698-20190718

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	32 A	6	-
Signal	500 V	4 A	1,5	-
Data	50 V	1 A	0,25	-

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(b)

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	116df3d8-d046-4832-b34c-fd51ab9c2fca

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