SB-8EPCD8A9L33S - Coupler connector

1623711

https://www.phoenixcontact.com/us/products/1623711

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

M40, Coupler connector, application: Hybrid, series: SB, straight long, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 4+4+4+PE / 3+N+PE, contact connection type: Pin, Crimp connection, cable diameter range: 14 mm ... 20.5 mm, coding: CAT5, coding 2, this item is expected to be lead-free from Q3 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
- 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	1623711
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB33
Product key	ABRCEG
GTIN	4055626194714
Weight per piece (including packing)	491.6 g
Weight per piece (excluding packing)	402.242 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

Product properties

Product type	Circular connector (cable-side)

Connector

Insulating body

Data rate	100 Mbps
Coding	CAT5, coding 2
Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	13
Connection profile	4+4+4+PE / 3+N+PE
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 (for max. connection cross section)
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)	4
Contact diameter (Data contacts)	0.8 mm
Litz wires Max. cross section (Data contacts)	0.5 mm²
Rated current Contact (Data contacts)	3.6 A (for max. connection cross section)
Rated voltage Contact (Data contacts)	50 V AC/DC (Contact 5 ... 8)
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	Coupling housing
Thread type	M40
Design	straight long
Type of locking	for standard and SPEEDCON interlock
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	14 mm ... 20.5 mm
Seal material	FKM

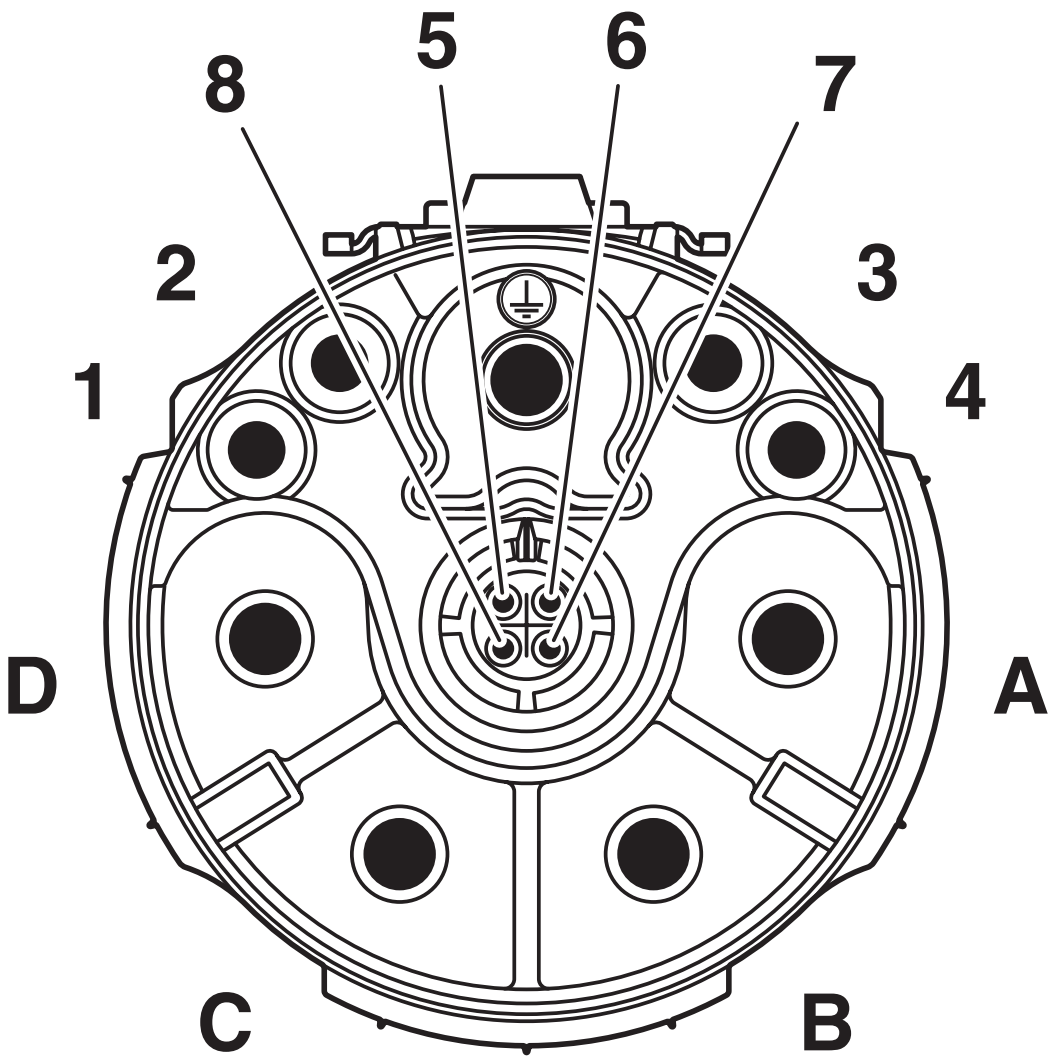
Environmental and real-life conditions

Ambient conditions

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

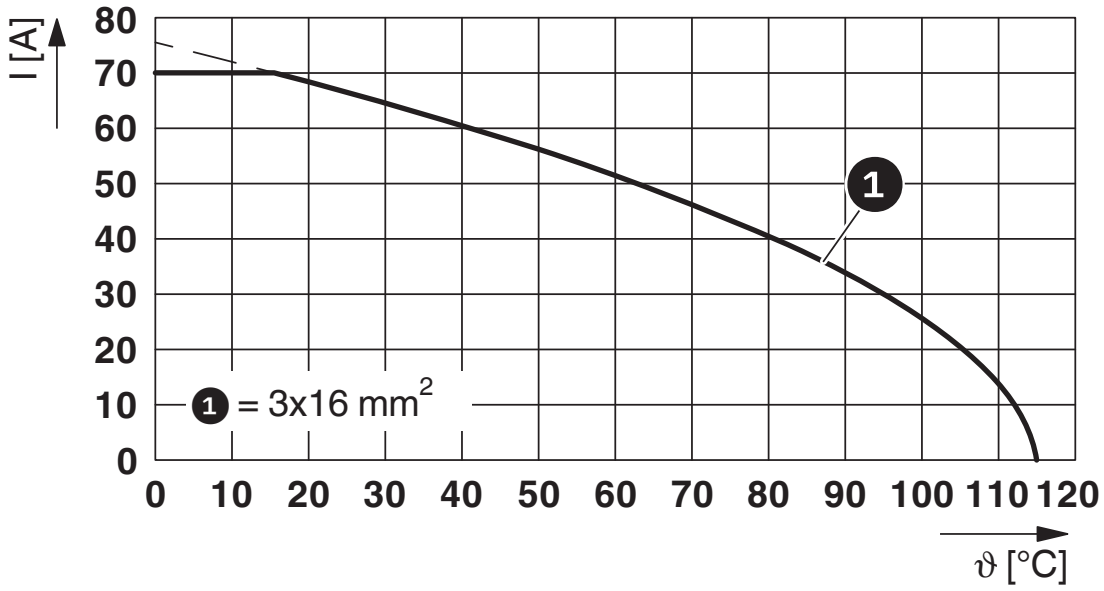
Drawings

Schematic diagram



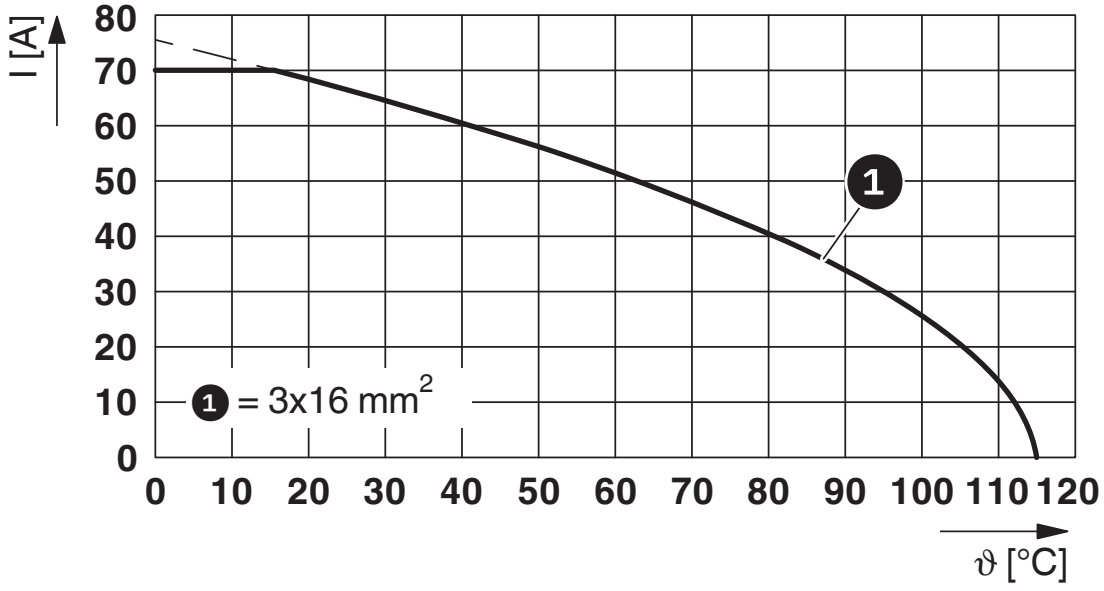
Pin assignment of pin CAT5, coding 2

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/us/products/1623711

cUL Recognized
Approval ID: E468743-20170914

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
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
keine				
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
keine				
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
keine				
Power	600 V	28 A	-	-
Signal	500 V	4 A	-	-
Data	50 V	1 A	-	-

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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	3d339521-e5a7-4bc8-914b-5129e9409376

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https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com