SH-8ESS48A9LB3S - Coupler connector

1621546

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Data element is black

M23, Coupler connector, application: Hybrid, series: SH, straight long, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, contact connection type: Socket, Crimp connection, cable diameter range: 8.5 mm ... 12.3 mm, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

Your advantages

- All housing can be fitted with pin or socket contacts
- A total of eight contacts are available for signal transmission
- 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	1621546
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCDG
GTIN	4046356936941
Weight per piece (including packing)	118 g
Weight per piece (excluding packing)	101.276 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Crimp contacts, 8 x Ø 1 mm, 5 x Ø 2 mm, order separately
Order information:	Recommended hybrid cable: (5 x 2.5 mm² + 2 x (2 x 0.5 mm²) + (4 x 0.34 mm²) C) C Lynxeo, order number 10572415 Recommended hybrid cable: (4 x 1.5 mm² + (4 x 0.34 mm² C) + (2 x 0.75 mm²) + (2 x 0.50 mm²)) C Lynxeo, order number 10580074

Safety note

Safety note	• 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.

Product properties

Product type	Circular connector (cable-side)
Application	Hybrid

Connector

Connection 1

Head design	Socket

Insulating body

Note	Order information: Crimp contacts, 8 x Ø 1 mm, 5 x Ø 2 mm, order separately
Protection against electric shock	IEC 61984 and VDE 0623
Material (Insulating body)	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
Application	Hybrid
Number of positions	13
Connection profile	8+4+PE
Installation height	2000 m
Number (Power contacts)	5
Diameter (External cable diameter / Power contacts)	max. 4.15 mm (Outer cable sheath)
Contact diameter (Power contacts)	2 mm
Litz wires Min. cross section (Power contacts)	0.25 mm²
Litz wires Max. cross section (Power contacts)	4 mm²
Rated current Contact (Power contacts)	30 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
Degree of pollution	3
Number (Signal contacts)	8
Diameter (External cable diameter / Signal contacts)	max. 2.1 mm (Outer cable sheath)
Contact diameter (Signal contacts)	1 mm
Litz wires Max. cross section (Signal contacts)	1 mm²
Rated current Contact (Signal contacts)	8 A (for max. connection cross section)
Rated voltage Contact (Signal contacts)	50 V (Contact 1 ... 8)
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3

Housing

Note	The suitability for assembly must be checked when fully assigned with maximum wire cross sections.
Type	Coupling housing
Thread type	M23
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)	IP67
	IP68

Seal

External cable diameter	8.5 mm ... 12.3 mm

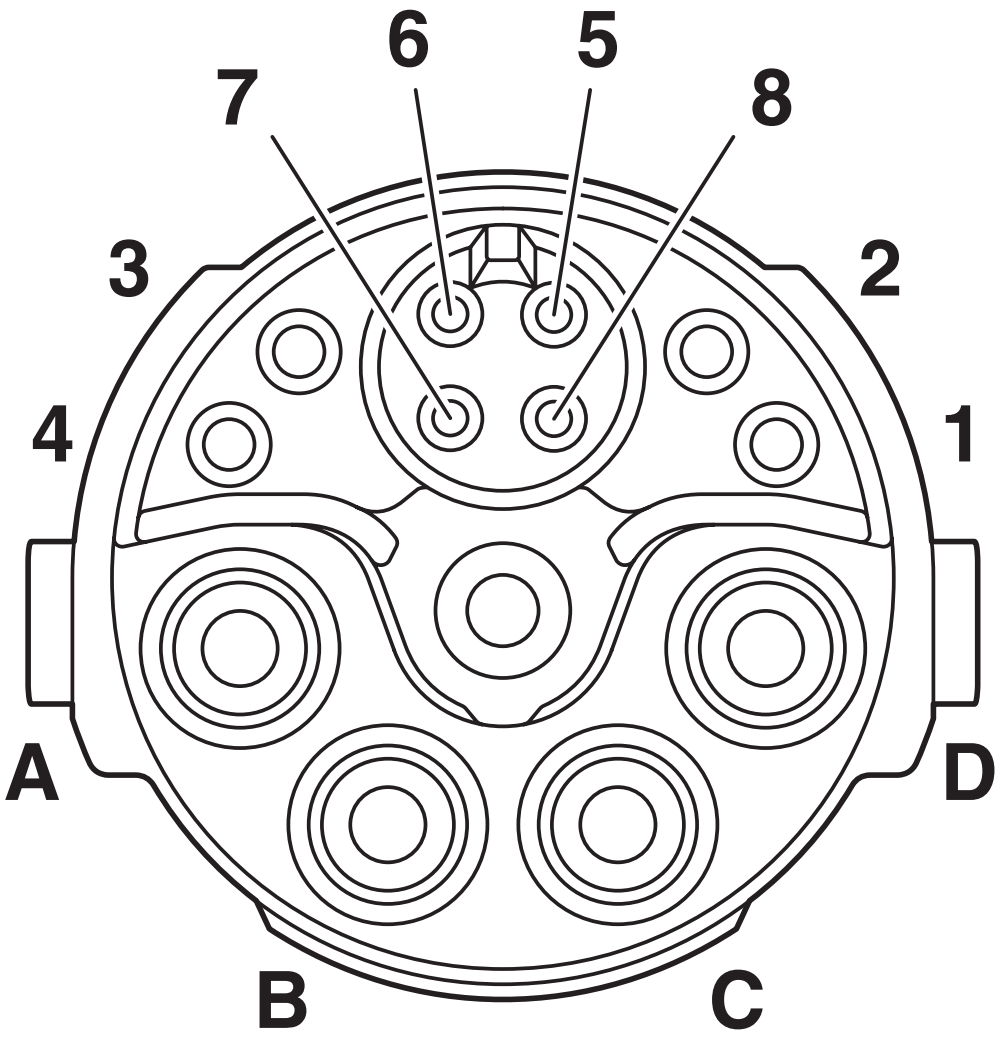
Environmental and real-life conditions

Ambient conditions

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

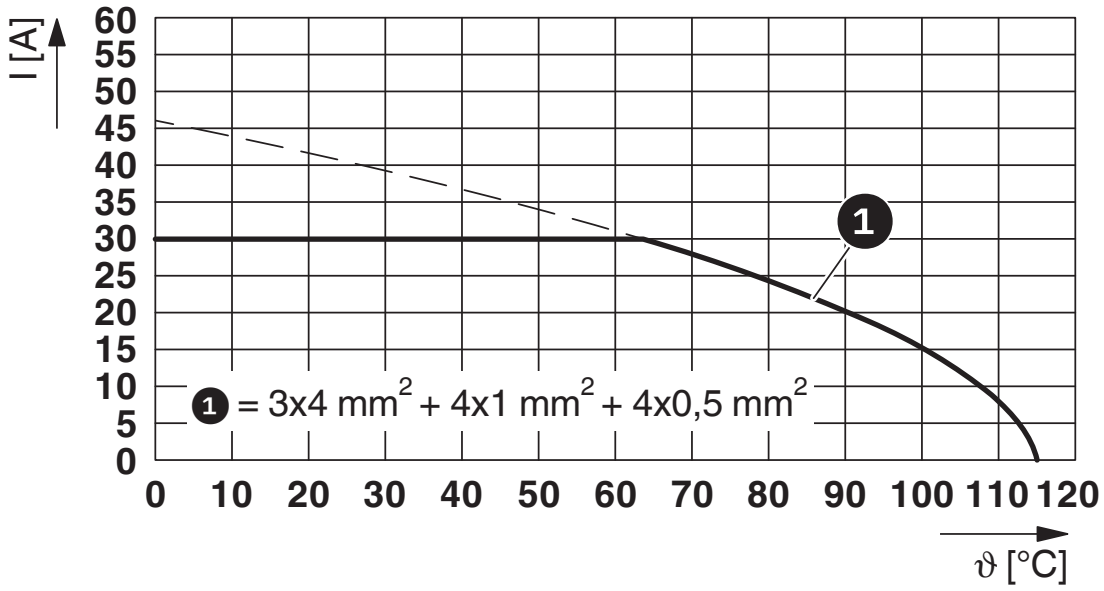
Drawings

Schematic diagram



Socket pin assignment, signal

Diagram



I = current strength, ϑ = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1621546

cUL Recognized
Approval ID: E153698-20181206

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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, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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