SH-8ESC58A8LDLSX - Cable connector

1244415

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

M23, Cable connector, application: Hybrid, series: SH, straight long, shielded: yes, SPEEDCON, No. of pos.: 4+4+4+PE / 3+N+PE, contact connection type: Socket, Crimp connection, cable diameter range: 7.5 mm ... 18 mm, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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 optional SPEEDCON fast locking system
- 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	1244415
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRCDB
GTIN	4063151407131
Weight per piece (including packing)	141 g
Weight per piece (excluding packing)	123.795 g
Country of origin	DE

Technical data

Notes

Order information:	Crimp contacts, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x 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

Product properties

Product type	Circular connector (cable-side)
Application	Hybrid

Connector

Connection 1

Head design	Socket

Insulating body

Note	Order information: Crimp contacts, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately
Protection against electric shock	IEC 61984 and VDE 0623
Data rate	100 Mbps
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	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
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 (Data contacts)	4
Diameter (External cable diameter / Data contacts)	max. 1.55 mm (Outer cable sheath)
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	III
Degree of pollution	3
Number (Signal contacts)	4
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 AC/DC (Contact 1 ... 4)
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3

Housing

Notes on operation	The suitability for assembly must be checked when fully assigned with maximum wire cross sections.
Type	Cable connector housing
Thread type	M23
Design	straight long
Type of locking	SPEEDCON
	Knurl tightening torque >1 Nm
Pg screw connection	none
Material (Housing)	Metal
Material (Screw connection)	Metal
Degree of protection (plugged in)	IP67
	IP68
	IP69K

Seal

External cable diameter	7.5 mm ... 18 mm

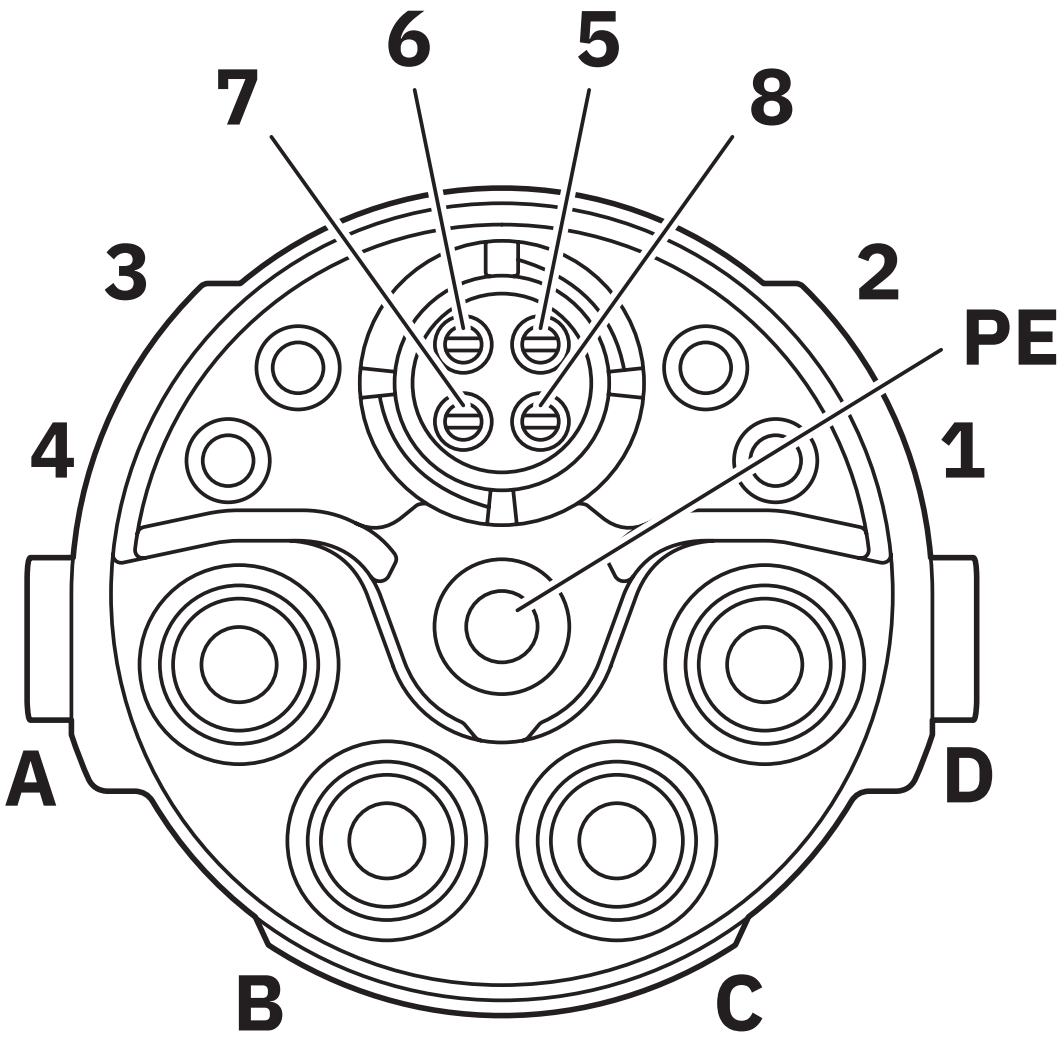
Environmental and real-life conditions

Ambient conditions

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

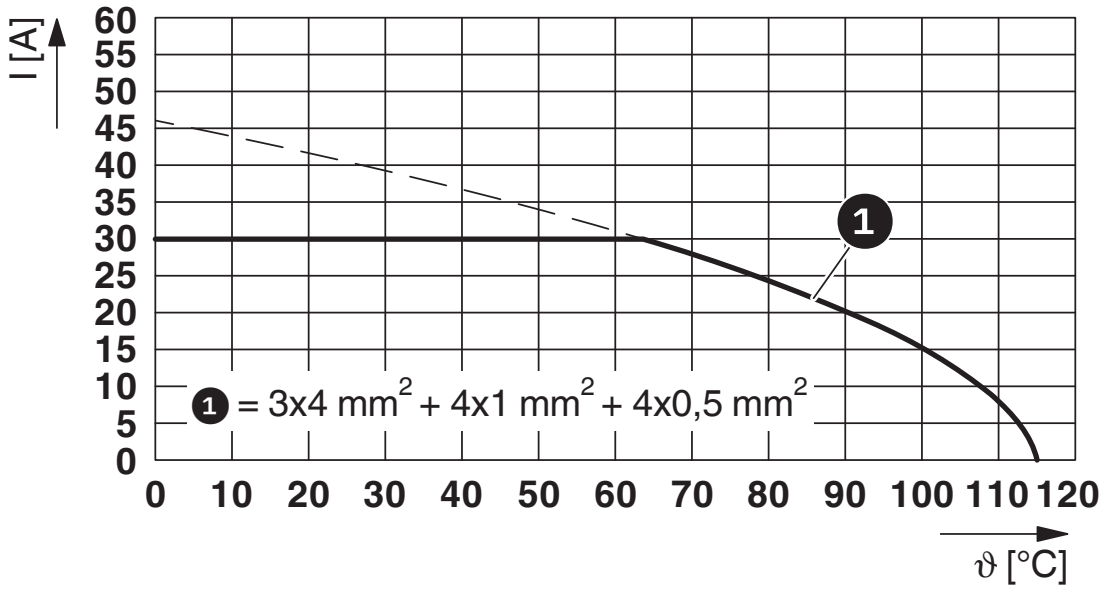
Drawings

Schematic diagram



Socket pin assignment, CAT5

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

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, 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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