

Cable connector - SH-8EPS48A8LB4



1622013

<https://www.phoenixcontact.com/pc/products/1622013>

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Cable connector, SH, straight long, shielded: yes, Screw locking, M23, No. of pos.: 8+4+PE, type of contact: Pin, Crimp connection, cable diameter range: 7.5 mm ... 9 mm, coding:N

Your advantages

- All housing can be fitted with pin or socket contacts
- A total of eight contacts are available for signal transmission
- 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

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Commercial Data

Item number	1622013
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Product Key	ABRCFA
Catalog Page	Page 118 (C-2-2019)
GTIN	4055626011875
Weight per Piece (including packing)	133 g
Weight per Piece (excluding packing)	133 g
Customs tariff number	85366990
Country of origin	DE

Technical Data

Notes

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.• 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.• The products are suitable for applications in plant, controller, and electrical device engineering.• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.• Assembled products may not be manipulated or improperly opened.• 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).• When using the product in direct connection with third-party manufacturers, the user is responsible.• For operating voltages > 50 V AC, conductive connector housings must be grounded• Ensure that the protective or functional ground has been properly connected.• 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• Only use tools recommended by Phoenix Contact• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.• Operate the connector only when it is fully plugged in and interlocked.• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.• 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).
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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

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
Coding	N
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact type	Pin
Application	Hybrid
Number of positions	13
Connection profile	8+4+PE
Contact diameter	2 mm
Max. cross section	4 mm ²
Rated surge voltage	6 kV
Rated voltage (II/3) power contact	850 V DC
Rated voltage (III/3) power contact	630 V AC

Housing

Type of locking	Screw locking
Thread type	M23
Degree of protection	IP67 IP68
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)

Seal

Seal material	FKM
External cable diameter	7.5 mm ... 9 mm

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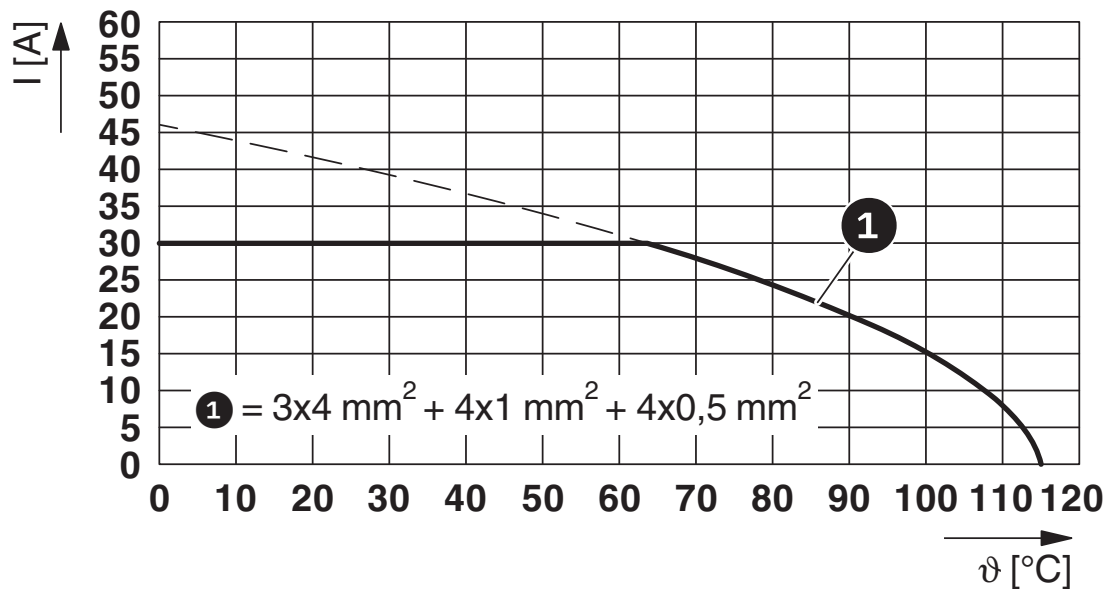


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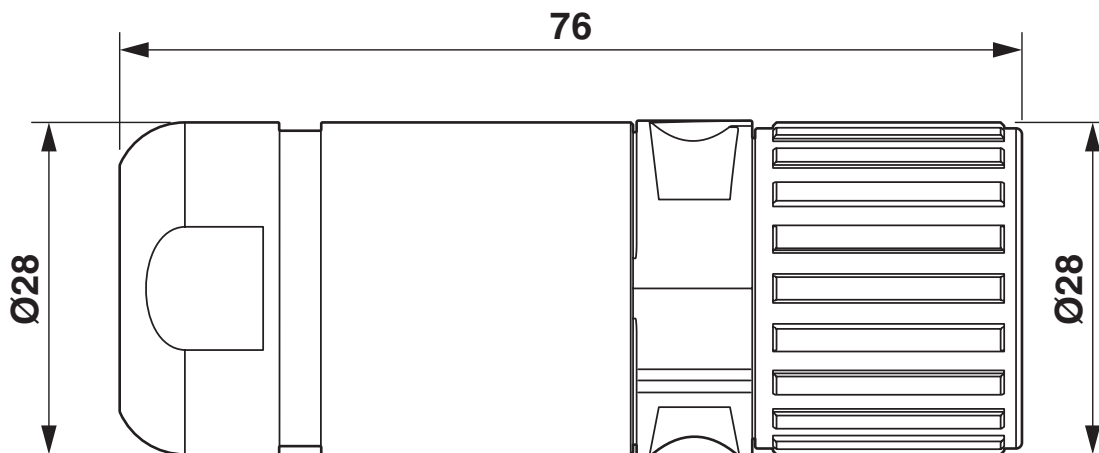
Drawings

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

Dimensional drawing



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Approvals



cUL Recognized

Approval ID: E153698-20181206



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Approval ID: E153698-20181206



EAC

Approval ID: B.01687



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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

Square mounting flange

Square mounting flange - SF-Z0068 - 1620927

<https://www.phoenixcontact.com/pc/products/1620927>



Square mounting flange, 4xM3, flange dimensions: 38 mm x 38 mm, series: SF

Crimp contact

Crimp contact - ST-10KP010 - 1618255

<https://www.phoenixcontact.com/pc/products/1618255>



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

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Torque screwdriver

Torque screwdriver - SF-Z0028 - 1607456

<https://www.phoenixcontact.com/pc/products/1607456>

Torque screwdriver, series: RC



Crimp contact

Crimp contact - ST-10KP035 - 1618458

<https://www.phoenixcontact.com/pc/products/1618458>

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



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Metal protective cap

Metal protective cap - SH-Z0077 - 1627226

<https://www.phoenixcontact.com/pc/products/1627226>



Metal protection cap with steel wire and loop, for M23 power and hybrid connectors with knurled nut for fastening to the cable

Crimp contact

Crimp contact - SF-20KP021 - 1621579

<https://www.phoenixcontact.com/pc/products/1621579>



Crimp contact, turned, contact diameter: 2 mm, crimp range: 0.25 mm² ... 1 mm²

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Metal protective cap

Metal protective cap - SH-Z2300 - 1622141

<https://www.phoenixcontact.com/pc/products/1622141>

Metal protection cap with steel wire, for M23 hybrid connectors with knurled nut



Crimp contact

Crimp contact - SF-20KP022 - 1621580

<https://www.phoenixcontact.com/pc/products/1621580>

Crimp contact, turned, contact diameter: 2 mm, crimp range: 1.5 mm² ... 2.5 mm²



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Crimp contact

Crimp contact - SF-20KP023 - 1621581

<https://www.phoenixcontact.com/pc/products/1621581>



Crimp contact, turned, contact diameter: 2 mm, crimp range: 2.5 mm² ... 4 mm²

Color-coding

Color-coding - SF-Z0064 - 1620585

<https://www.phoenixcontact.com/pc/products/1620585>

Color-coding, color: green



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Color-coding

Color-coding - SF-Z0065 - 1620586

<https://www.phoenixcontact.com/pc/products/1620586>

Color-coding, color: orange



Color-coding

Color-coding - SF-Z0066 - 1620587

<https://www.phoenixcontact.com/pc/products/1620587>

Color-coding, color: black



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