

SF-7ES1N8A8LB1S - Cable connector



1618208

<https://www.phoenixcontact.com/us/products/1618208>

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Cable connector, SPEEDCON, M23, number of positions: 4+3+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 15 mm ... 18 mm, number of positions: 8, connection method: Crimp connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243174

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly
- Flexible use: reliably connect cable diameters of 7.5 mm ... 18 mm
- Molded designs with preassembled cables on one or both sides

Commercial data

Item number	1618208
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFB
Catalog page	Page 154 (C-2-2019)
GTIN	4046356584470
Weight per piece (including packing)	121.9 g
Weight per piece (excluding packing)	100.48 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Order information:	Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
Safety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. • 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

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warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Circular connector (cable-side)
Application	Power
Number of positions	8
Connection profile	4+3+PE
Shielded	yes
Coding	N
Thread type	M23

Data management status

Article revision	11
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Material specifications

Seal material	FPM
Housing material	Metal

Connection data

Conductor connection

Connection method	Crimp connection
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Electrical properties

Contact

Contact diameter	2 mm
Max. current	30 A
Nominal voltage U_N	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV

Contact

Contact diameter	1 mm
Min. cross section	0 mm ²
Max. current	9 A
Nominal voltage U_N	250 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	4 kV

Connector

Connection 1

Head design	Socket
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Cable/line

External cable diameter	15 mm ... 18 mm
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Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 125 °C
Ambient temperature (storage/transport)	15 °C ... 25 °C
Altitude	3000 m
Permissible humidity (storage/transport)	50 % ... 65 %

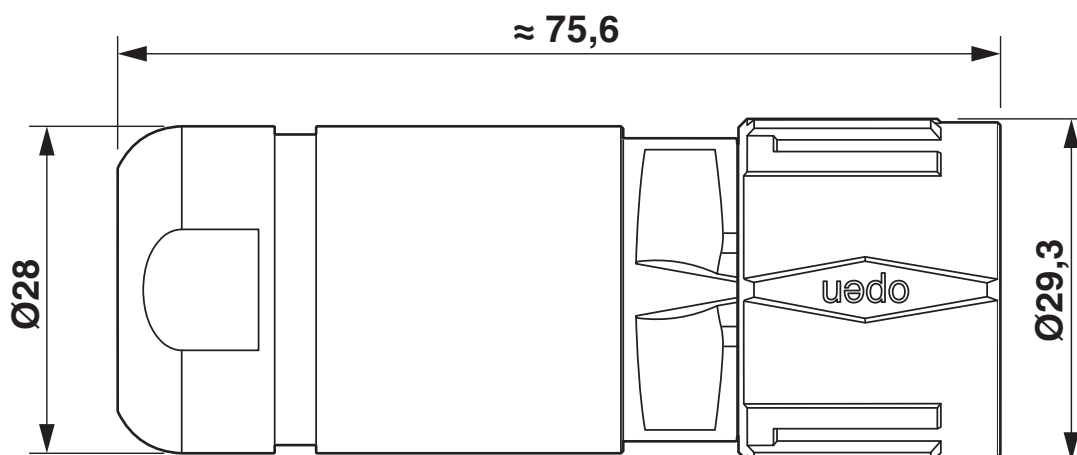
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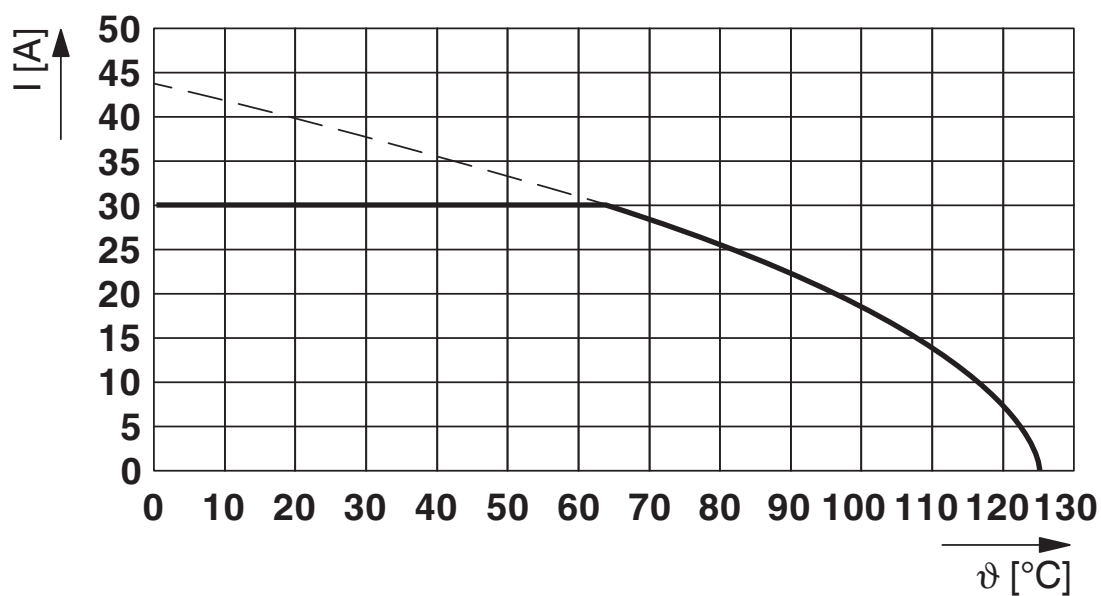
Drawings

Dimensional drawing



Dimensional drawing

Diagram



I = current strength, T = ambient temperature

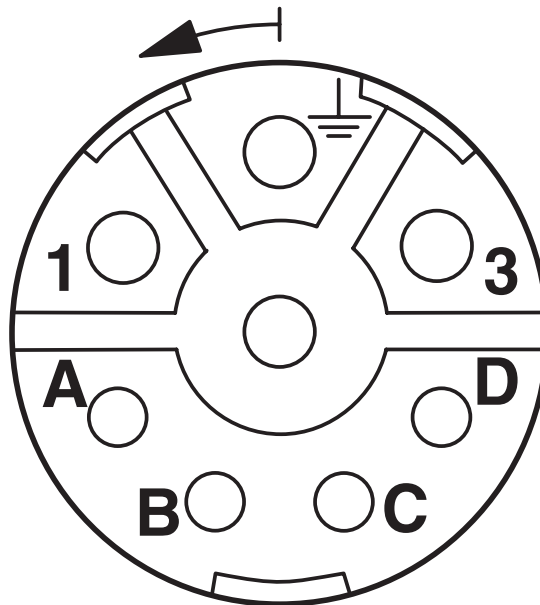
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Schematic diagram



Connector pin assignment

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1618208>

 cUL Recognized Approval ID: E153698-20041116				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	18 A	12 - 12	-

 UL Recognized Approval ID: E153698-20041116				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	27 A	12 - 12	-

cULus Recognized				
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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
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	44d34dc2-79d7-4c2d-8154-1df891793673

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Accessories

SF-7PS2000 - Crimp contact

1605636

<https://www.phoenixcontact.com/us/products/1605636>



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: 0.25 mm² ... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241952

SF-7NS2000 - Crimp contact

1605631

<https://www.phoenixcontact.com/us/products/1605631>



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: 0.75 mm² ... 1.5 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237431

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SF-7QS2000 - Crimp contact

1605643

<https://www.phoenixcontact.com/us/products/1605643>



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: 1 mm² ... 2.5 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237431

SF-7MS2000 - Crimp contact

1605628

<https://www.phoenixcontact.com/us/products/1605628>



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: 4 mm² ... 4 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241949

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SF-6CS2000 - Crimp contact

1605562

<https://www.phoenixcontact.com/us/products/1605562>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm² ... 0.25 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241922

SF-10KS004 - Crimp contact

1607356

<https://www.phoenixcontact.com/us/products/1607356>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14 mm² ... 0.5 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241922

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SF-6FS2000 - Crimp contact

1605566

<https://www.phoenixcontact.com/us/products/1605566>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm² ... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241923

SF-6AS2000 - Crimp contact

1605557

<https://www.phoenixcontact.com/us/products/1605557>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.25 mm² ... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241922

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SC-Z2322 - Metal protective cap

1605459

<https://www.phoenixcontact.com/us/products/1605459>

Metal dust protection cap with steel wire for power plugs with M23 knurled nuts



SF-Z0064 - Color coding

1620585

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

Color coding, color: green



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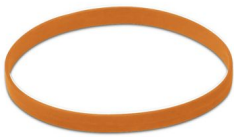


SF-Z0065 - Color coding

1620586

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

Color coding, color: orange



SF-Z0066 - Color coding

1620587

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

Color coding, color: black



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SF-Z0028 - Torque screwdriver

1607456

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

Torque screwdriver, series: RC, UC, SH, SF



SF-Z0027 - Hook wrench

1607455

<https://www.phoenixcontact.com/us/products/1607455>

Hook wrench, series: RC, UC, RF, SF



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SF-Z0068 - Square mounting flange

1620927

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



Square mounting flange, 4xM3, flange dimensions: 38 mm x 38 mm, series: SF, SH, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244326

PROT-M23-PW-IT-IP20 - Plastic protective cap

1577207

<https://www.phoenixcontact.com/us/products/1577207>



Plastic protective cap, M23, degree of protection: IP20, series: SH, SF

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