

SF-7ES1N8A8LDL - Cable connector



1605617

<https://www.phoenixcontact.com/us/products/1605617>

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

Cable connector, application: Power, straight long, Screw locking mechanism, M23, number of positions: 4+3+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 7.5 mm ... 18 mm, number of positions: 8, connection method: Crimp connection, series: SF, This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives. Alternative products: 1628801

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	1605617
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFA
GTIN	4046356253970
Weight per piece (including packing)	140 g
Weight per piece (excluding packing)	126.82 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
Note on application	Series SF connectors are not compatible with series M23 PRO and must not be combined.

Safety note

Safety note	<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.
	<ul style="list-style-type: none">• The products are suitable for applications in plant, controller, and electrical device engineering.
	<ul style="list-style-type: none">• Assembled products may not be manipulated or improperly opened.
	<ul style="list-style-type: none">• When using the product in direct connection with third-party manufacturers, the user is responsible.
	<ul style="list-style-type: none">• Ensure that the protective or functional ground has been properly connected.
	<ul style="list-style-type: none">• Only use tools recommended by Phoenix Contact
	<ul style="list-style-type: none">• Operate the connector only when it is fully plugged in and interlocked.
	<ul style="list-style-type: none">• Observe the minimum bending radius of the cable. Lay the cable without twisting it.

Product properties

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

Material specifications

Material Housing	GD-Zn
Material Rotating parts	CuZn
Material Housing surface	Ni
Material Insulating body	PA 6.6
Material Seal	FPM (O-ring)
Seal material	FPM

Connection data

Conductor connection

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Connection method	Crimp connection
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Electrical properties

Contact: Contact group 1

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

Contact: Contact group 2

Contact diameter	1 mm
Nominal current I_N	9 A
Nominal voltage U_N	250 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	4 kV

Connector

Type	straight long
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Connection 1

Head design	Socket
Head cable outlet	straight, long
Head thread type	M23

Cable/line

External cable diameter	7.5 mm ... 18 mm
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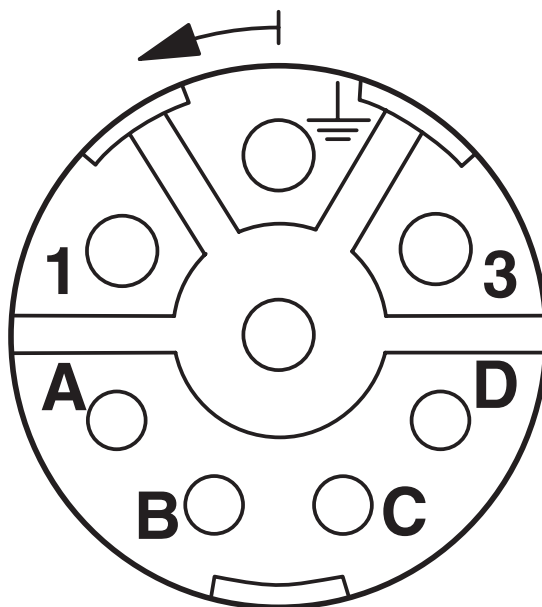
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 125 °C
Altitude	3000 m

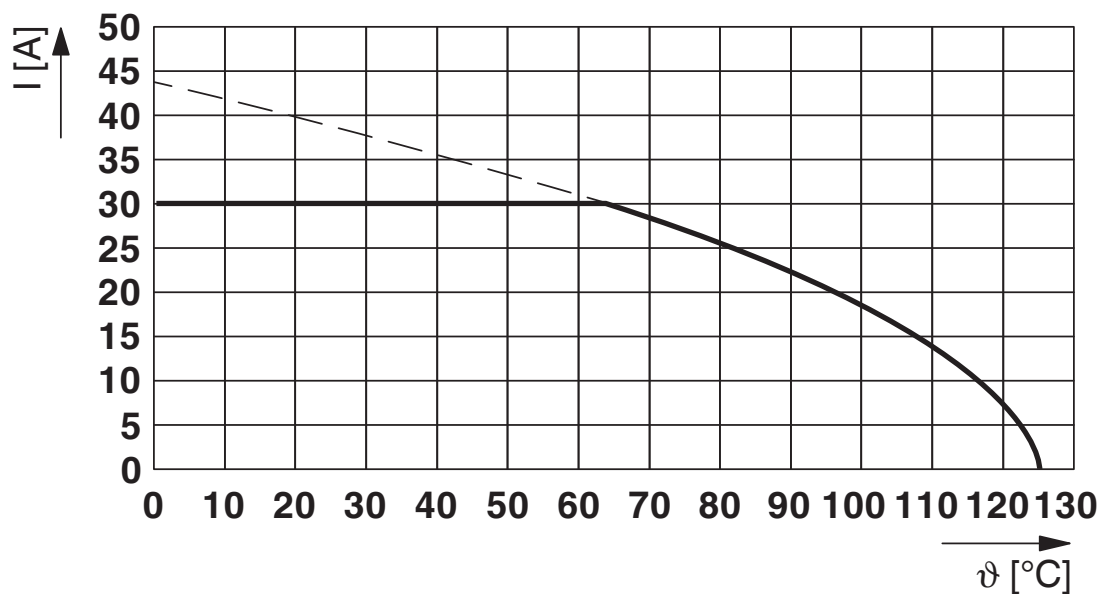
Drawings

Schematic diagram



Connector pin assignment

Diagram



I = current strength, T = ambient temperature

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1605617>



cUL Recognized

Approval ID: E153698-20041116



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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	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, No exemptions
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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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