

SM-5ES1N8A8S22 - Cable connector



1613518

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Cable connector, application: Power, straight long, Screw locking mechanism, M40, number of positions: 2+3+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 9 mm ... 14 mm, number of positions: 6, connection method: Crimp connection, series: SM, this item is expected to be lead-free from Q3 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

The figure shows the 8-pos.
(4+3+PE) product version

Your advantages

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

Commercial data

Item number	1613518
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBGA
GTIN	4046356400794
Weight per piece (including packing)	438.8 g
Weight per piece (excluding packing)	382.261 g
Customs tariff number	85366990
Country of origin	DE

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1613518

<https://www.phoenixcontact.com/us/products/1613518>

Technical data

Notes

Order information:	Order crimp contacts 2 x Ø 2 mm, 4 x Ø 3.6 mm separately
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)
Series	SM
Application	Power
Number of positions	6
Connection profile	2+3+PE
Shielded	yes
Coding	N
Thread type	M40

Material specifications

Material Housing	GD-Zn
Material Housing surface	Ni
Material Insulating body	PA 6.6
Material Seal	FPM
Housing material	Turned parts: copper zinc alloy (CuZn), aluminum (Al), die-cast parts: zinc (GD-Zn)

Connection data

Conductor connection	
Connection method	Crimp connection

Electrical properties

Contact: Contact group 1	
Contact diameter	3.6 mm
Nominal current I_N	70 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	2 mm
Nominal current I_N	30 A

SM-5ES1N8A8S22 - Cable connector



1613518

<https://www.phoenixcontact.com/us/products/1613518>

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	M40

Cable/line

External cable diameter	9 mm ... 14 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

SM-5ES1N8A8S22 - Cable connector

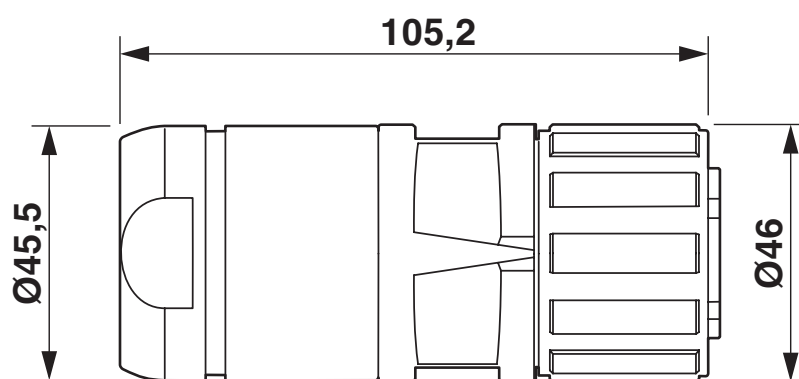
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Drawings

Dimensional drawing



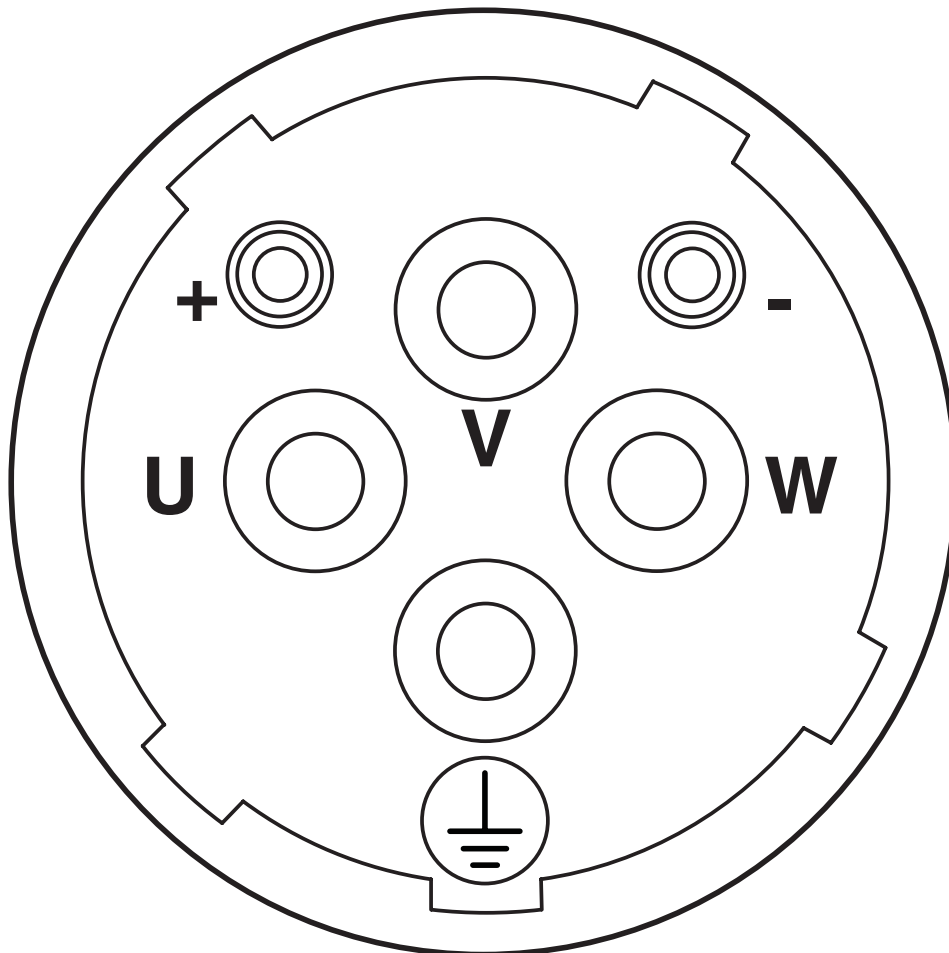
Dimensional drawing

SM-5ES1N8A8S22 - Cable connector

1613518

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Schematic diagram



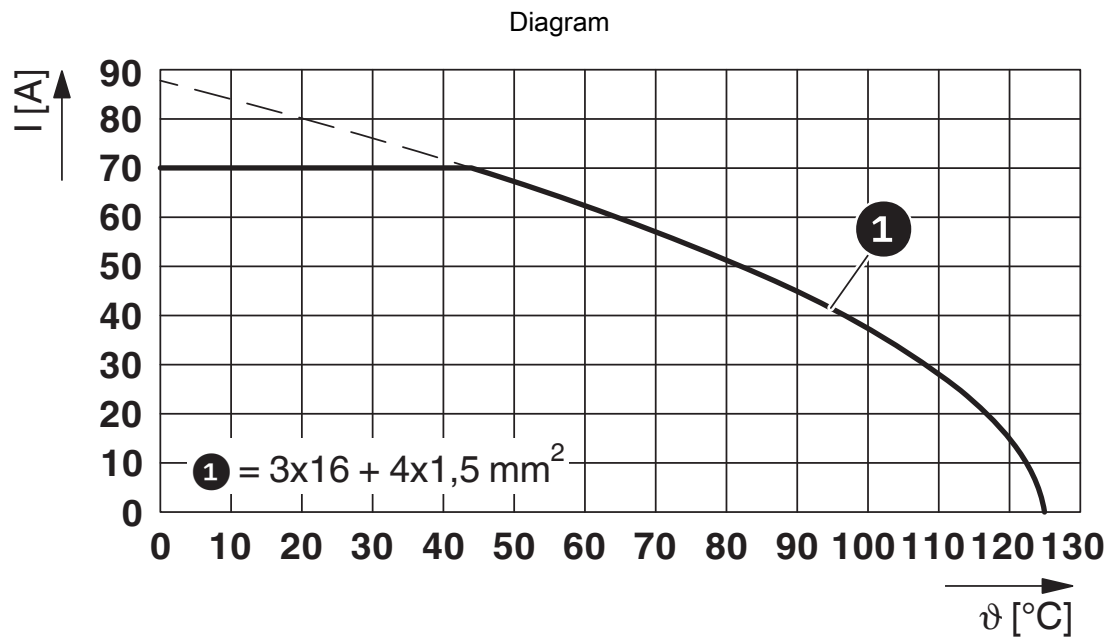
Connector pin assignment

SM-5ES1N8A8S22 - Cable connector



1613518

<https://www.phoenixcontact.com/us/products/1613518>



I = current strength, T = ambient temperature

SM-5ES1N8A8S22 - Cable connector



1613518

<https://www.phoenixcontact.com/us/products/1613518>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1613518>

 cUL Recognized Approval ID: E153698-20150903				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	40 A	-	-
Signal	600 V	20 A	-	-

 UL Recognized Approval ID: E153698-20150903				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	65 A	-	-
Signal	600 V	30 A	-	-

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1613518

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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
Exemption	6(b), 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	76769c52-5ba6-42a5-be68-f6d543ec59e4

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