

ST-8ES1N8AH100S - Device connector rear mounting



1613629

<https://www.phoenixcontact.com/pc/products/1613629>

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Device connector rear mounting, straight, for standard and SPEEDCON interlock, M17, number of positions: 5+3+PE, contact connection type: Socket, Axial O-ring, Central fixing, shielded: yes, degree of protection: IP67, number of positions: 9, connection method: Crimp connection, series: ST

Your advantages

- Application-specific wall mounting optionally with thread or anti-rotation protection and lock nut
- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly

Commercial data

Item number	1613629
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRBER
Catalog page	Page 139 (C-2-2019)
GTIN	4046356442381
Weight per piece (including packing)	39.7 g
Weight per piece (excluding packing)	27.19 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order crimp contacts 5 x 0.6 mm, 4 x Ø 1 mm separately
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

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

Mounting

Mounting type	Rear mounting
Mounting	Central fixing

Product properties

Product type	Circular connectors (device side)
Series	ST
Application	Power
Number of positions	9
Connection profile	5+3+PE
Shielded	yes
Coding	N
Thread type	M17

Data management status

Article revision	06
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Material specifications

Seal material	FPM
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)

Electrical properties

Contact

Contact diameter	1 mm
Max. current	14 A
Nominal voltage U_N	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV

Contact

Contact diameter	0.6 mm
Max. current	3.6 A
Nominal voltage U_N	60 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	1.5 kV

Connection data

Conductor connection

Connection method	Crimp connection
Contact connection type	Socket

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Connector

Type	straight
Direction of rotation	Standard

Connection 1

Head design	Socket
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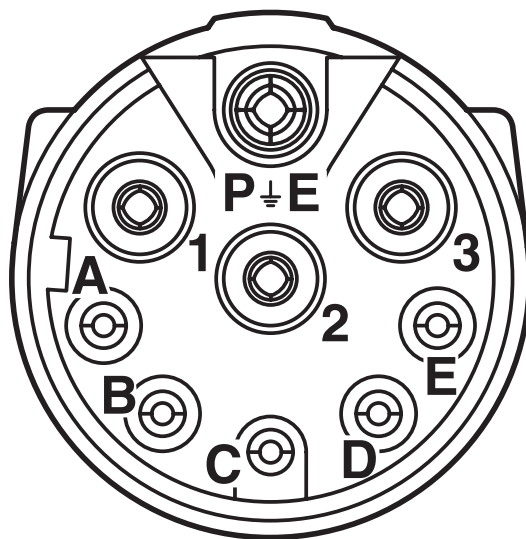
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 125 °C
Ambient temperature (storage/transport)	15 °C ... 25 °C
Altitude	2000 m
Permissible humidity (storage/transport)	50 % ... 65 %

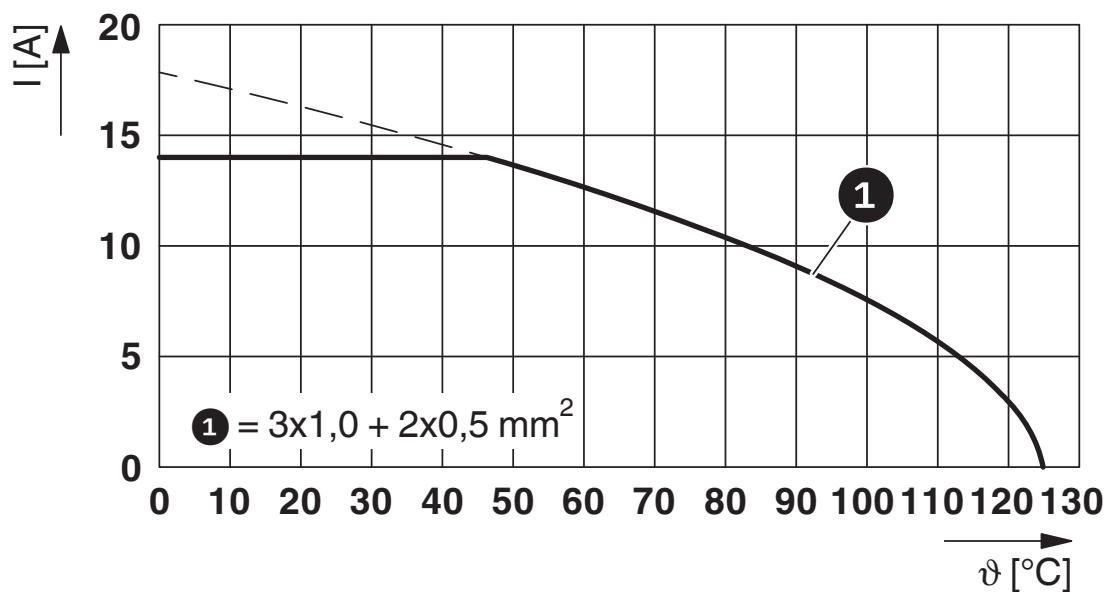
Drawings

Schematic diagram



Connector pin assignment

Diagram



I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant

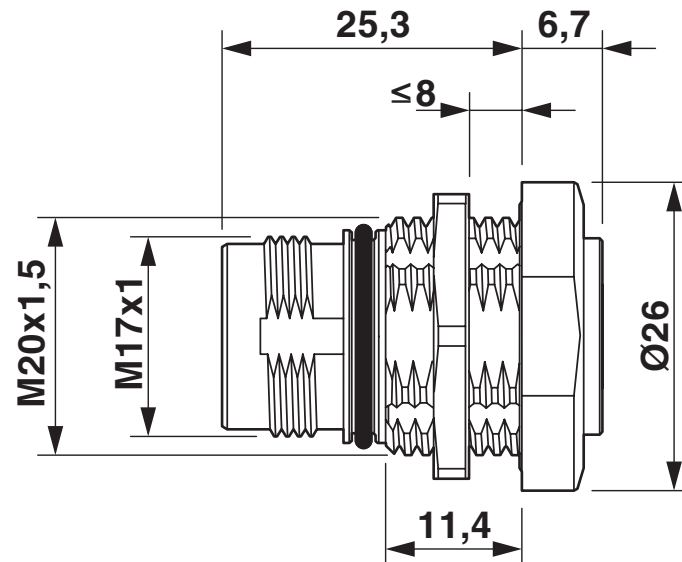
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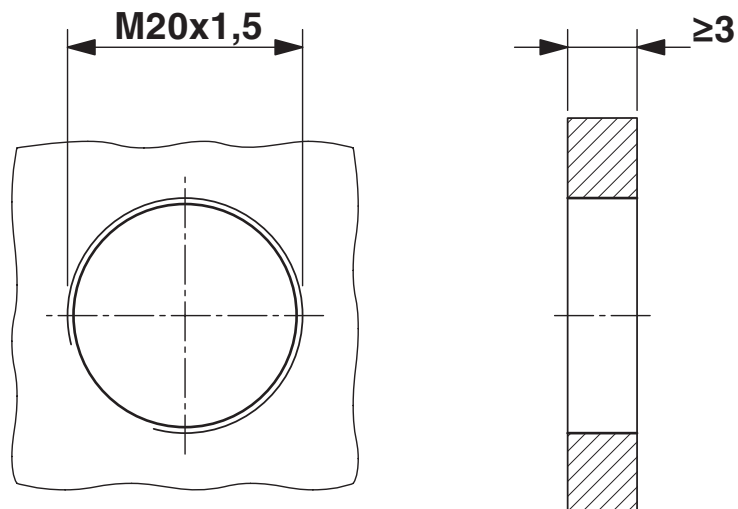
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Dimensional drawing



Dimensional drawing

Dimensional drawing



Installation dimensions: mounting with thread

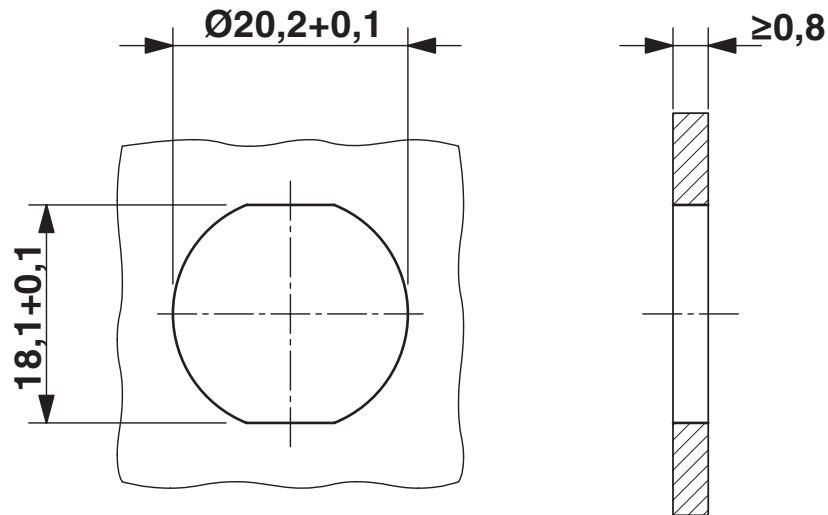
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Dimensional drawing



Installation dimensions: mounting with anti-rotation protection and locking nut

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1613629>

UL Recognized Approval ID: E153698-20140124				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

cUL Recognized Approval ID: E153698-20140124				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

cUL Recognized Approval ID: E335019-20111129				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

UL Recognized Approval ID: E335019-20111129				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

UL Listed Approval ID: E468743-20210825				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	10 A	-	18 - 18
Signal	60 V	2 A	-	20 - 20

cUL Listed Approval ID: E468743-20210825				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	8 A	18 - 18	-
Signal	60 V	2 A	20 - 20	-

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cULus Listed

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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, 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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Accessories

ST-06KS010 - Crimp contact

1607580

<https://www.phoenixcontact.com/pc/products/1607580>



Crimp contact, Socket, turned, contact diameter: 0.6 mm, crimp range: 0.06 mm² ... 0.25 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242314

ST-06KS020 - Crimp contact

1607581

<https://www.phoenixcontact.com/pc/products/1607581>



Crimp contact, Socket, turned, contact diameter: 0.6 mm, crimp range: 0.14 mm² ... 0.34 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242314

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ST-06KS030 - Crimp contact

1607582

<https://www.phoenixcontact.com/pc/products/1607582>



Crimp contact, Socket, turned, contact diameter: 0.6 mm, crimp range: 0.34 mm² ... 0.5 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242315

ST-10KS010 - Crimp contact

1618239

<https://www.phoenixcontact.com/pc/products/1618239>



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.: 1243216

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ST-10KS035 - Crimp contact

1618464

<https://www.phoenixcontact.com/pc/products/1618464>



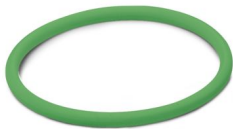
Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range: 0.25 mm² .. 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243216

ST-Z0019 - Color coding

1620621

<https://www.phoenixcontact.com/pc/products/1620621>

Color coding, color: green



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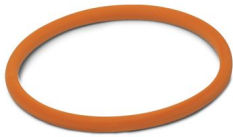
<https://www.phoenixcontact.com/pc/products/1613629>

ST-Z0020 - Color coding

1620622

<https://www.phoenixcontact.com/pc/products/1620622>

Color coding, color: orange



ST-Z0021 - Color coding

1620623

<https://www.phoenixcontact.com/pc/products/1620623>

Color coding, color: black



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RC-13041 - Flat nut

1600417

<https://www.phoenixcontact.com/pc/products/1600417>

Flat nut, Screw mounting, M20 x 1,5, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241209



ST-Z0001 - Contact removal tool

1607770

<https://www.phoenixcontact.com/pc/products/1607770>

Unlocking tool for contact carriers for snapping in the M17 device connectors



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ST-Z0014 - Metal protective cap

1616069

<https://www.phoenixcontact.com/pc/products/1616069>



Metal protective cap, M17, degree of protection: IP67, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243010

ST-Z0013 - Metal protective cap

1616068

<https://www.phoenixcontact.com/pc/products/1616068>



Metal protective cap, M17, degree of protection: IP67, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243009

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PROT-M17PRO-OT-IP20 - Plastic protective cap

1055708

<https://www.phoenixcontact.com/pc/products/1055708>

Plastic protective cap, M17, degree of protection: IP20, series: M17 PRO



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