SH-8EPC58AH000S - Device connector rear mounting

1627205

https://www.phoenixcontact.com/us/products/1627205

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M23, Device connector rear mounting, series: SH, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 4+4+4+PE / 3+N+PE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, Flat gasket, Central fastening M26 x 1, Panel thickness min.: 1.5 mm, Panel thickness max.: 5 mm, coding: N

Your advantages

- Transmission of signals, data, and power in just a single connector
- CAT5 data interface for up to 100 Mbps
- Safe use in the field, thanks to high degree of protection
- Consistent EMC protection for reliable connection solutions in the industrial environment

Commercial data

Item number	1627205
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB33
Product key	ABRCDR
Catalog page	Page 120 (C-2-2019)
GTIN	4055626408200
Weight per piece (including packing)	78.7 g
Weight per piece (excluding packing)	60 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Crimp contacts, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x Ø 2 mm, order 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 warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Circular connectors (device side)

Material specifications

Flammability rating according to UL 94	V0

Connector

Insulating body

Note	Order information: Crimp contacts, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately
Protection against electric shock	IEC 61984 and VDE 0623
Data rate	100 Mbps
Coding	N
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Connection profile	4+4+4+PE / 3+N+PE
Contact diameter Power contacts	2 mm
Litz wire cross-section Power contacts min.	0.25 mm²
Litz wire cross-section Power contacts max.	4 mm²
Rated current Power contacts	30 A
Note	for max. connection cross section
Rated surge voltage	6 kV
Rated voltage (II/3) power contact	850 V DC
Rated voltage (III/3) power contact	630 V AC
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.06 mm²
Litz wire cross-section Signal contacts max.	1 mm²
Nominal current per signal contact	8 A
Note	for max. connection cross section
Rated surge voltage	1.5 kV
Rated voltage (III/3) signal contact	50 V
Contact diameter Data contacts	0.8 mm
Litz wire cross-section Data contacts min.	0.08 mm²
Litz wire cross-section Data contacts max.	0.5 mm²

Rated current per data contact at 25°C	3.6 A
Note	for max. connection cross section
Rated voltage Data contacts	50 V
Rated surge voltage	1.5 kV
Installation height	2000 m

Housing

Housing material	CuZn
Type of locking	for standard and SPEEDCON interlock
Degree of protection (plugged in)	IP67
Thread type	M23

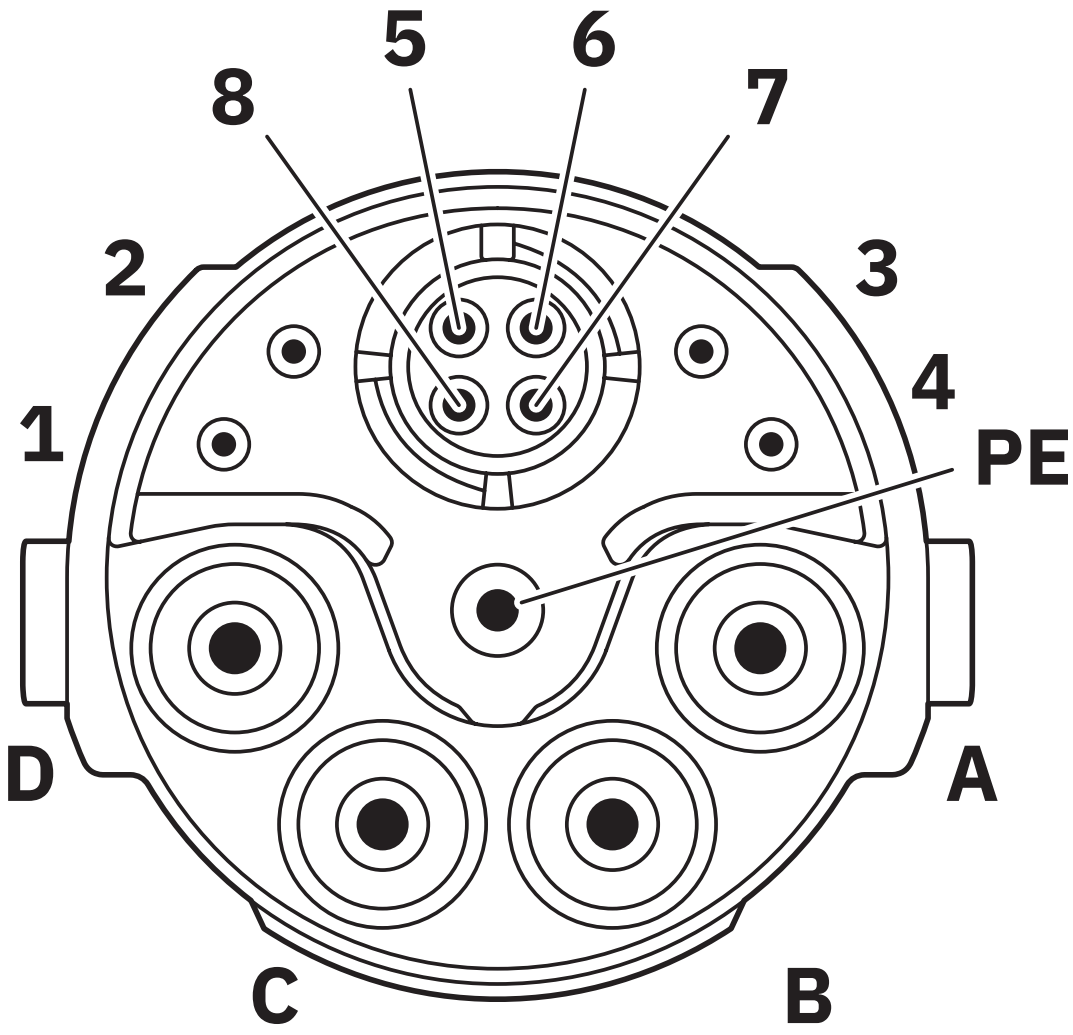
Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 115 °C (see derating curve)
Ambient temperature (storage/transport)	15 °C ... 25 °C
Permissible humidity (storage/transport)	50 % ... 65 %

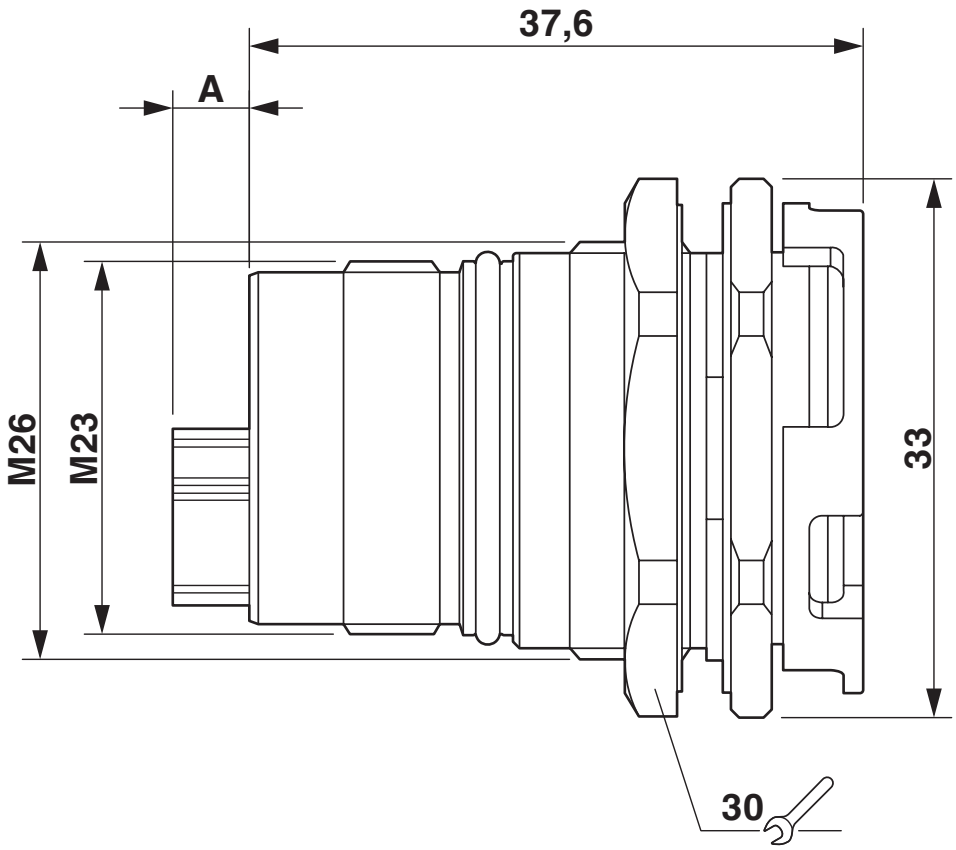
Drawings

Schematic diagram



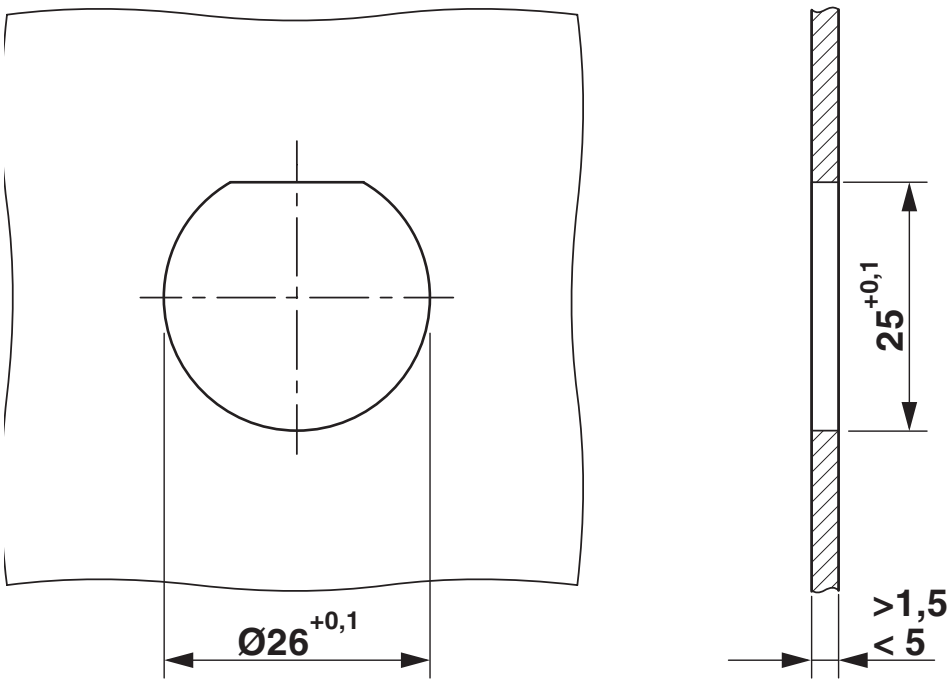
Pin assignment of pin, CAT5

Dimensional drawing



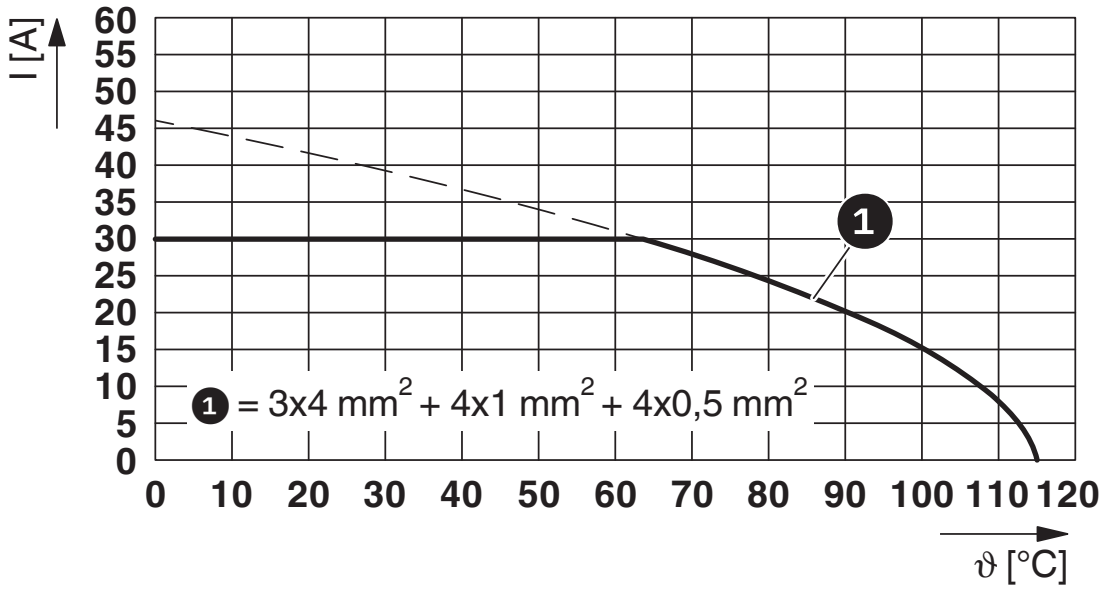
Pin version: dimension A = 4.7 mm, socket version: dimension A = 0 mm

Dimensional drawing



Installation dimensions

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

Classifications

ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

ETIM

ETIM 9.0	EC003569

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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%

Accessories

SH-Z2302 - Metal protective cap

1622139

https://www.phoenixcontact.com/us/products/1622139



Metal protective cap, Screw locking mechanism, M23, degree of protection: IP67/68/69K, series: SH, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244540

SH-Z2304 - Protective cap

1622137

https://www.phoenixcontact.com/us/products/1622137



Plastic protection cap for M23 hybrid connectors with external thread

SH-Z2303 - Metal protective cap

1622138

https://www.phoenixcontact.com/us/products/1622138



Metal protective cap, Screw locking mechanism, M23, degree of protection: IP67/68/69K, series: SH

M23 HYBRID_CONTACT-SAMPLE-SET - Sample set

1623252

https://www.phoenixcontact.com/us/products/1623252



Sample set consisting of 4x Ø 1.0 mm, 4x Ø 0.8 mm, 5x Ø 2.0 mm socket and pin contacts for M23 hybrid connectors. Contacts included: 1621573, 1618464, 1621577, 1621575, 1618458, 1621580

PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

https://www.phoenixcontact.com/us/products/1055753



Plastic protective cap, M23, degree of protection: IP20, series: M23 PRO

ST-10KP010 - Crimp contact

1618255

https://www.phoenixcontact.com/us/products/1618255



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm^2 ... 0.25 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

ST-10KP035 - Crimp contact

1618458

https://www.phoenixcontact.com/us/products/1618458



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.25 mm^2 ... 1 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

SF-20KP021 - Crimp contact

1621579

https://www.phoenixcontact.com/us/products/1621579



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.25 mm^2 ... 1 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244464

SF-20KP022 - Crimp contact

1621580

https://www.phoenixcontact.com/us/products/1621580



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1.5 mm^2 ... 2.5 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244464

SF-20KP023 - Crimp contact

1621581

https://www.phoenixcontact.com/us/products/1621581



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 2.5 mm^2 ... 4 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244465

SF-08KP010 - Crimp contact

1621574

https://www.phoenixcontact.com/us/products/1621574



Crimp contact, Pin, turned, contact diameter: 0.8 mm, crimp range: 0.08 mm^2 ... 0.25 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244458

SF-08KP020 - Crimp contact

1621575

https://www.phoenixcontact.com/us/products/1621575



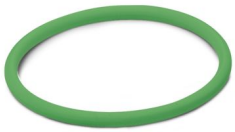
Crimp contact, Pin, turned, contact diameter: 0.8 mm, crimp range: 0.34 mm^2 ... 0.5 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244459

RF-Z0017 - Color coding

1620624

https://www.phoenixcontact.com/us/products/1620624

Color coding, color: green



RF-Z0018 - Color coding

1620625

https://www.phoenixcontact.com/us/products/1620625

Color coding, color: orange



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https://www.phoenixcontact.com/us/products/1627205

RF-Z0019 - Color coding

1620626

https://www.phoenixcontact.com/us/products/1620626

Color coding, color: anthracite



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