M17-8EP1N8A8002S - Cable connector

1628980

https://www.phoenixcontact.com/pc/products/1628980

M17, Cable connector, series: M17 PRO, straight, shielded: yes, ONECLICK fast locking system, No. of pos.: 5+3+PE, contact connection type: Pin, Crimp connection, cable diameter range: 3.5 mm ... 6.5 mm, coding: N, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

Your advantages

- Solutions with cross-manufacturer compatibility for standard and fast locking systems
- ONECLICK fast locking system with an optically, haptically, and acoustically clear locking position
- Reliable under the harshest conditions: cable connectors with vibration brake
- Modern, consistent design for highly convenient operation
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40

Commercial data

Item number	1628980
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRBAB
GTIN	4055626705590
Weight per piece (including packing)	77.6 g
Weight per piece (excluding packing)	77.6 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

General	Order crimp contacts 5 x 0.6 mm, 4 x Ø 1 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

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

Product properties

Product type	Circular connector (cable-side)

Connector

Insulating body

Coding	N
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	9
Connection profile	5+3+PE
Contact diameter Power contacts	1 mm
Litz wire cross-section Power contacts min.	0.06 mm²
Litz wire cross-section Power contacts max.	1 mm²
Rated current Power contacts	14 A
Note	for max. connection cross section
Rated voltage	630 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Signal contacts	0.6 mm
Litz wire cross-section Signal contacts min.	0.06 mm²
Litz wire cross-section Signal contacts max.	0.5 mm²
Nominal current per signal contact	3.6 A
Note	for max. connection cross section
Rated voltage Signal contact	60 V
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Installation height	2000 m

Housing

Housing material	GD-Zn
Type of locking	ONECLICK fast locking system
Pg screw connection	none
Degree of protection (plugged in)	IP67
	IP68, 24 h / 2 m
Thread type	M17

Seal

External cable diameter	3.5 mm ... 6.5 mm

Environmental and real-life conditions

Ambient conditions

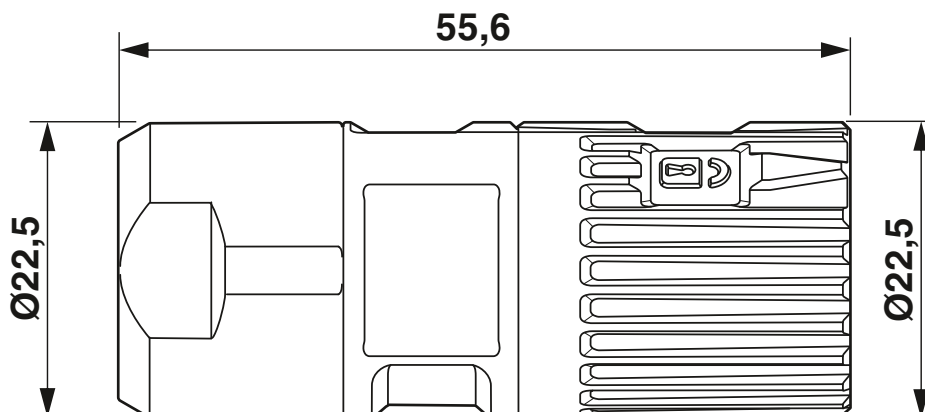|	
Ambient temperature (operation)	-40 °C ... 105 °C (see derating curve)

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Drawings

Schematic diagram

PE

E 3 1

2

D A

C B
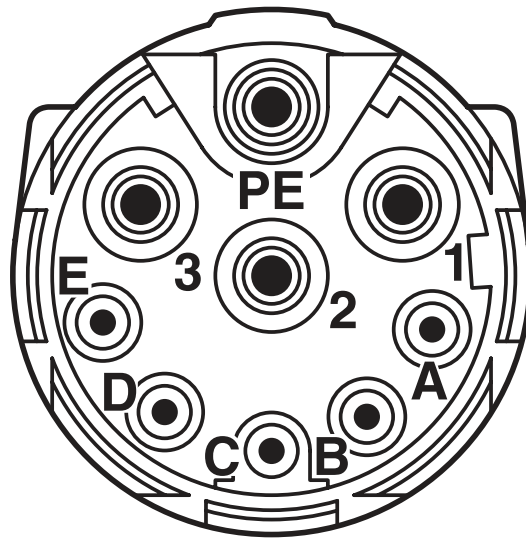
Connector pin assignment

Dimensional drawing

55,6

Ø22,5

Ø22,5

Dimensional drawing

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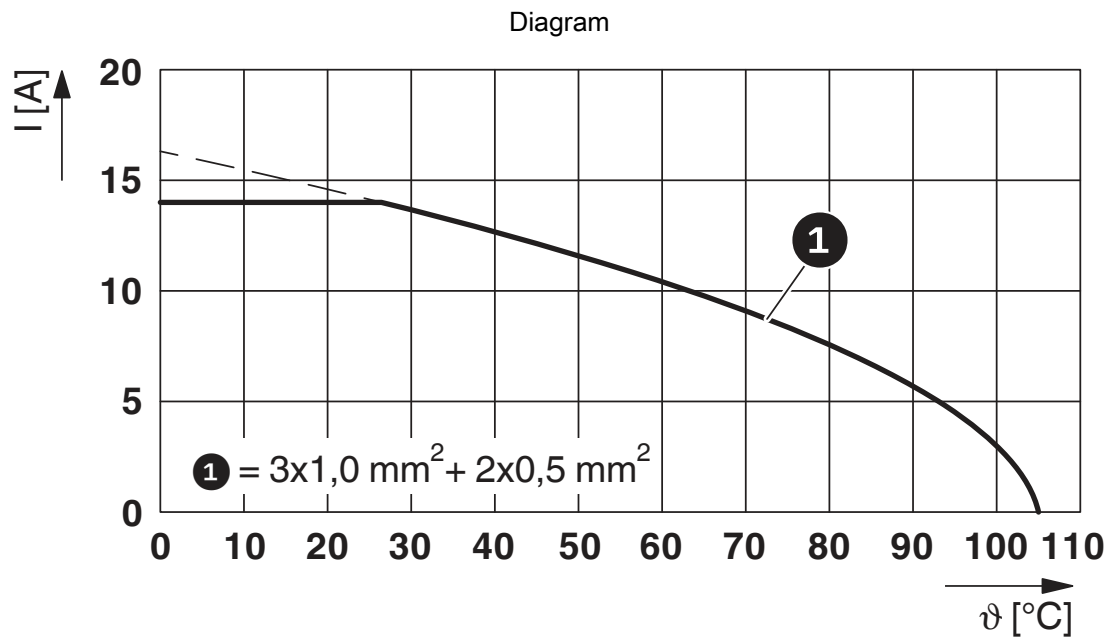
I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Accessories

M17-Z0011 - Tool

1089155

https://www.phoenixcontact.com/pc/products/1089155

Nut for assembling M17-PRO series cable connectors and for 4 mm hexagonal drive

TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/pc/products/1212224

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

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TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/pc/products/1212600

Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

ST-06KP010 - Crimp contact

1607577

https://www.phoenixcontact.com/pc/products/1607577

Crimp contact, Pin, turned, contact diameter: 0.6 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.: 1242311

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ST-06KP020 - Crimp contact

1607578

https://www.phoenixcontact.com/pc/products/1607578

Crimp contact, Pin, turned, contact diameter: 0.6 mm, crimp range: 0.14 mm^2 ... 0.34 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1242311

ST-06KP030 - Crimp contact

1607579

https://www.phoenixcontact.com/pc/products/1607579

Crimp contact, Pin, turned, contact diameter: 0.6 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.: 1242312

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ST-10KP010 - Crimp contact

1618255

https://www.phoenixcontact.com/pc/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/pc/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

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PROT-M17PRO-IT-IP20 - Plastic protective cap

1055709

https://www.phoenixcontact.com/pc/products/1055709

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

PROT-M17PRO-IT-IP67 - Plastic protective cap

1055707

https://www.phoenixcontact.com/pc/products/1055707

Plastic protective cap, M17, degree of protection: IP67, series: M17 PRO