

M17-6EP1N8A8003 - Cable connector



1629033

<https://www.phoenixcontact.com/us/products/1629033>

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M17, Cable connector, series: M17 PRO, straight, shielded: yes, Screw locking mechanism, No. of pos.: 6+PE, contact connection type: Pin, Crimp connection, cable diameter range: 5.5 mm ... 9.5 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
- 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	1629033
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBAA
GTIN	4055626706122
Weight per piece (including packing)	79.8 g
Weight per piece (excluding packing)	79 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Order information:	Order 7 x Ø 1 mm crimp contacts 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

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

Product properties

Product type	Circular connector (cable-side)
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Connector

Insulating body

Coding	N
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	7
Connection profile	6+PE
Contact diameter	1 mm
Power contacts	
Litz wire cross-section Power contacts min.	0.06 mm ²
Litz wire cross-section Power contacts max.	1 mm ²
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

Housing

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

Seal

External cable diameter	5.5 mm ... 9.5 mm
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (see derating curve)
Ambient temperature (storage/transport)	15 °C ... 25 °C
Permissible humidity (storage/transport)	50 % ... 65 %

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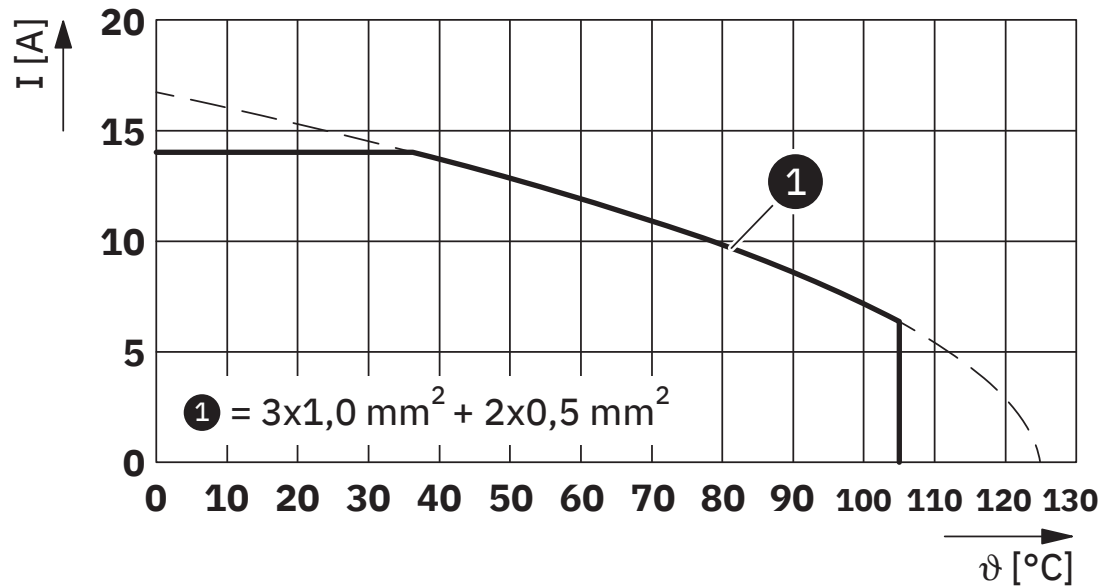
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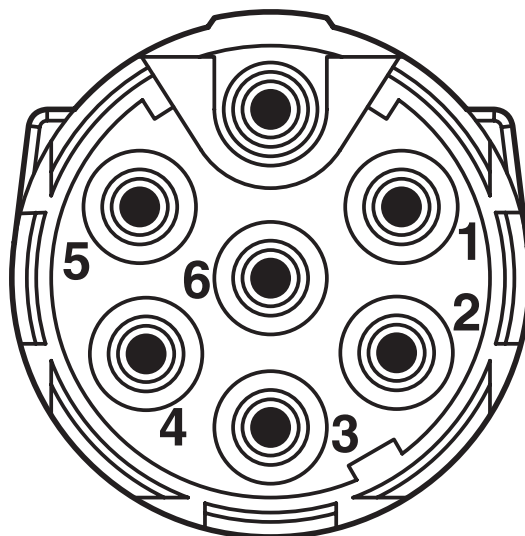
Drawings

Diagram



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

Schematic diagram



Connector pin assignment

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1629033>



UL Listed

Approval ID: E468743-20230831

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	10 A	-	1
Signal	600 V	2 A	-	1



cUL Listed

Approval ID: E468743-20230831

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	8 A	1	-
Signal	60 V	2 A	1	-

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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com