M17-6EP1N8A8004S - Cable connector

1628990

https://www.phoenixcontact.com/us/products/1628990

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

M17, Cable connector, application: Power, series: M17 PRO, straight, shielded: yes, ONECLICK fast locking system, No. of pos.: 6+PE, contact connection type: Pin, Crimp connection, cable diameter range: 8.5 mm ... 12.3 mm, 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	1628990
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBAB
GTIN	4055626705699
Weight per piece (including packing)	76.5 g
Weight per piece (excluding packing)	60.36 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order 7 x Ø 1 mm crimp contacts separately

Product properties

Product type	Circular connector (cable-side)
Product family	M17 PRO

Connector

Insulating body

Flammability rating according to UL 94	V0
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	7
Connection profile	6+PE
Number (Contact group 1)	6
Contact diameter (Contact group 1)	1 mm
Litz wires Min. cross section (Contact group 1)	0.06 mm²
Litz wires Max. cross section (Contact group 1)	1 mm²
Rated current Contact (Contact group 1)	14 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	630 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Cable connector housing
Thread type	M17
Design	straight
Type of locking	ONECLICK fast locking system
Pg screw connection	none
Material (Housing)	GD-Zn
Degree of protection (plugged in)	IP67
	IP68 (2 m / 24 h)

Seal

External cable diameter	8.5 mm ... 12.3 mm

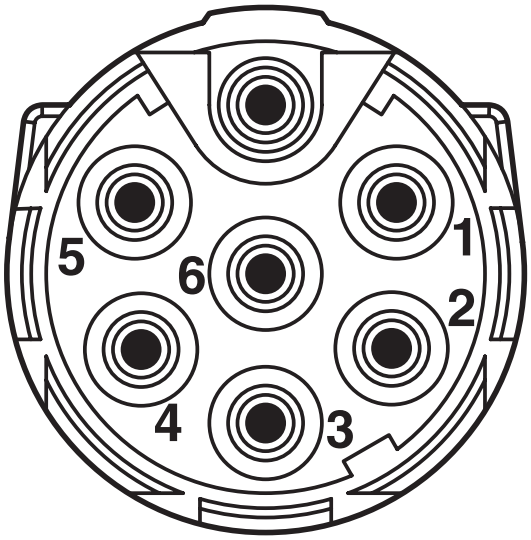
Environmental and real-life conditions

Ambient conditions

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

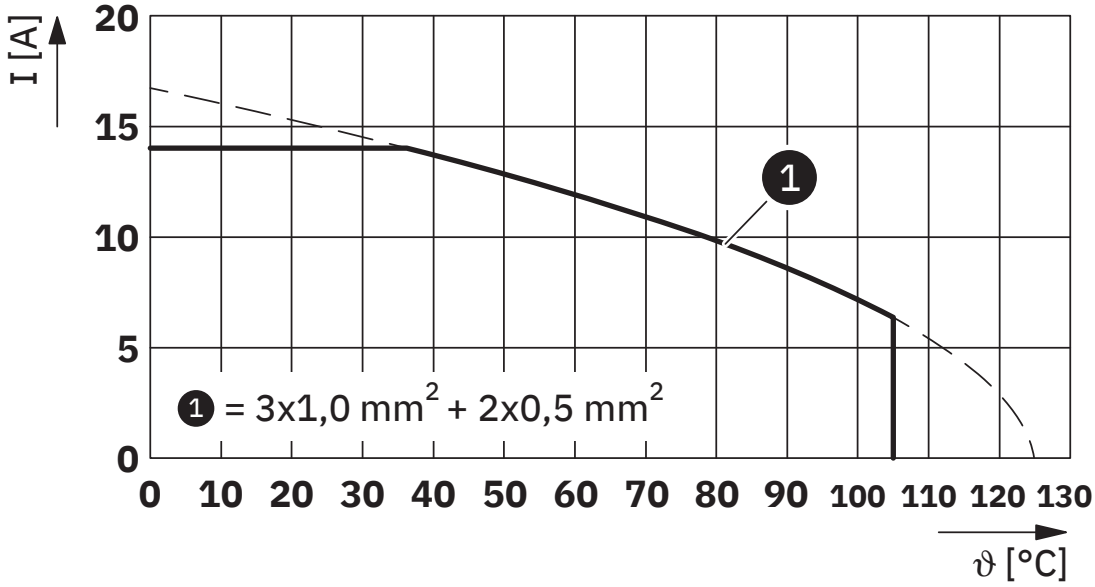
Drawings

Schematic diagram



Connector pin assignment

Diagram



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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628990

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	10 A	- 18	1
Signal	60 V	2 A	- 18	1

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	8 A	- 18	-
Signal	60 V	2 A	- 18	-

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

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%

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

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