1628990

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

PHŒNIX CONTACT

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.



M17, Cable connector, 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 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	1628990
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRBAB
GTIN	4055626705699
Weight per piece (including packing)	76.5 g
Weight per piece (excluding packing)	76.5 g
Customs tariff number	85366990
Country of origin	DE

1628990

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

PHŒNIX CONTACT

Technical data

General	Order 7 x Ø 1 mm crimp contacts separately
afety 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 an operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicate 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/o 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

1628990

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

٦	PHŒ CONT	NIX
Ľ	CONT	ΆΠ

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

Product properties

Product type

Circular connector (cable-side)

Connector

nsulating 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 Power contacts	1 mm
Litz wire cross-section Power contacts min.	0.06 mm²
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	
Degree of pollution	3

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

Environmental and real-life conditions

Ambient conditions

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

8.5 mm ... 12 mm

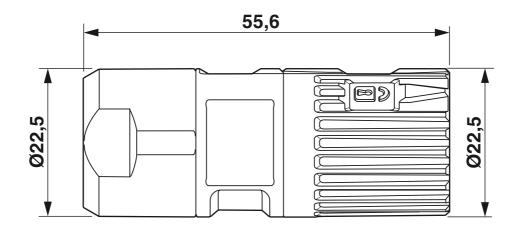
1628990

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

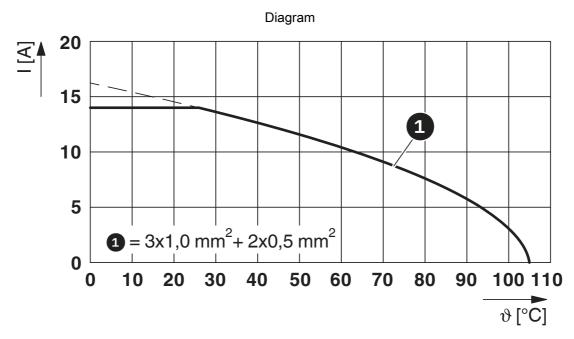


Drawings

Dimensional drawing



Dimensional drawing



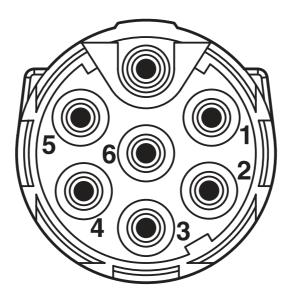
I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant



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



Schematic diagram



Connector pin assignment

1628990

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



Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC002635
UNSPSC		
	UNSPSC 21.0	39121400

1628990

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

Environmental product compliance

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

1628990

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



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 $\rm Nm$

1628990

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



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-10KP010 - Crimp contact

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



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

1628990

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



ST-10KP035 - Crimp contact

1618458

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



Crimp contact, Pin, 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.: 1243215

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

1628990

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

PHŒNIX CONTACT

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

Phoenix Contact 2023 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com