

1628943

https://www.phoenixcontact.com/us/products/1628943

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M17, Coupler connector, series: M17 PRO, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 7+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
- · Modern, consistent design for highly convenient operation
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40

#### Commercial data

Item number	1628943
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBAG
GTIN	4055626706481
Weight per piece (including packing)	68.6 g
Weight per piece (excluding packing)	68.6 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

#### Notes

Order 8 x Ø 1 mm crimp contacts separately
WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
<ul> <li>WARNING: Commission properly functioning products only.</li> <li>The products must be regularly inspected for damage.</li> <li>Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> </ul>
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.
<ul> <li>The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
<ul> <li>When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> </ul>
<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
<ul> <li>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).</li> </ul>
<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
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
<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
<ul> <li>Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>
Observe the minimum bending radius of the cable. Lay the cable without twisting it.
<ul> <li>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</li> </ul>



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	warnings (e.g. DIN EN ISO 13732-1:2008-12).
duct properties	
Product type	Circular connector (cable-side)
erial specifications	
Flammability rating according to UL 94	V0
nector	
sulating body	
Coding	N
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	8
Connection profile	7+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
Installation height	2000 m
ousing	
Housing material	GD-Zn
Type of locking	for standard and ONECLICK fast locking system
Pg screw connection	none
Degree of protection (plugged in)	IP67
	IP68, 24 h / 2 m
Thread type	M17
eal	
External cable diameter	5.5 mm 9.5 mm
ironmental and real-life conditions	
mbient conditions	
Ambient temperature (operation)	-40 °C 105 °C (see derating curve)
Ambient temperature (storage/transport)	15 °C 25 °C



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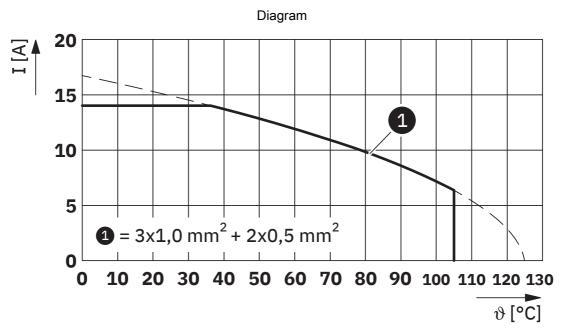
Permissible humidity (storage/transport)	50 % 65 %



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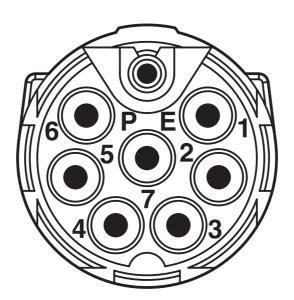


### **Drawings**



I = current strength,  $\vartheta$  = 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/1628943

UL Listed Approval ID: E468743-20230831				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	10 A	-	1
Signal	600 V	2 A	-	1

cUL Listed Approval ID: E468743-20230831				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	8 A	1	-
Signal	60 V	2 A	1	-

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1628943

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## Classifications

#### **ECLASS**

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 9.0	EC002635	
UNSPSC			
	UNSPSC 21.0	39121400	



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### 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%		

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