

1629031

https://www.phoenixcontact.com/pc/products/1629031

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M17, Cable connector, series: M17 PRO, straight, shielded: yes, Screw locking mechanism, No. of pos.: 6+PE, contact connection type: Socket, 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
- · 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	1629031
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRBAA
GTIN	4055626706108
Weight per piece (including packing)	79.8 g
Weight per piece (excluding packing)	60 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.
	<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>
	<ul> <li>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</li> </ul>
	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>
	<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>
	<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).
luct properties	
Product type	Circular connector (cable-side)
ata management status	
Article revision	04
, who is revision	04
nector	
sulating body	
Coding	N
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
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 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
pusing	
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
eal	
External cable diameter	3.5 mm 6.5 mm
increased and real life life.	
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
Permissible humidity (storage/transport)	50 % 65 %

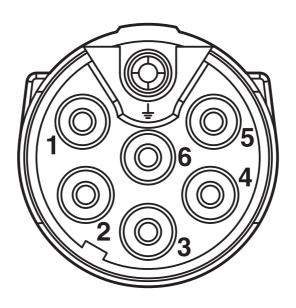


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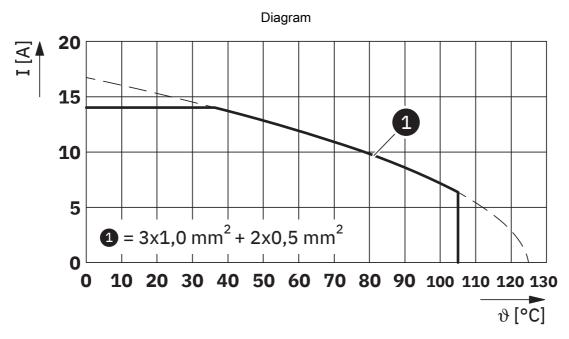


### **Drawings**

Schematic diagram



### Connector pin assignment



I = current strength,  $\vartheta$  = ambient temperature, 3x 14 A + 2x 2 A constant



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1629031

UL Listed Approval ID: E468743-20	1230831			
	Nominal voltage $U_N$	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: E468743-202	230831			
	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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### Classifications

UNSPSC 21.0

### **ECLASS**

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

39121400



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## Environmental product compliance

EU R	oHS
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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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#### Accessories

ST-Z0077 - Metal protective cap

1627217

https://www.phoenixcontact.com/pc/products/1627217



Metal protective cap, degree of protection: IP67, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245441

### 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





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### 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

### 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



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#### ST-10KS010 - Crimp contact

1618239

https://www.phoenixcontact.com/pc/products/1618239



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range:  $0.06~\text{mm}^2$  ...  $0.25~\text{mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243216

#### ST-10KS035 - Crimp contact

1618464

https://www.phoenixcontact.com/pc/products/1618464



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range:  $0.25~\text{mm}^2$ .. 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243216



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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

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