# M17-6ES1N8A8002 - Cable connector

1629031

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

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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, Screw locking mechanism, No. of pos.: 6+PE, contact connection type: Socket, Crimp connection, cable diameter range: 3.5 mm ... 6.5 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
- 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 |
| Sales key | AB30 |
| Product key | ABRBAA |
| GTIN | 4055626706108 |
| Weight per piece (including packing) | 79.8 g |
| Weight per piece (excluding packing) | 63.216 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

# Technical data

## Notes

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

Safety note

| | |
|---|---|
| Safety note | • 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. |

## 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 | Socket |
| 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 | Screw locking mechanism |
| Pg screw connection | none |
| Material (Housing) | GD-Zn |
| Degree of protection (plugged in) | IP67 |
| | IP68 (2 m / 24 h) |

Seal

| | |
|---|---|
| External cable diameter | 3.5 mm ... 6.5 mm |

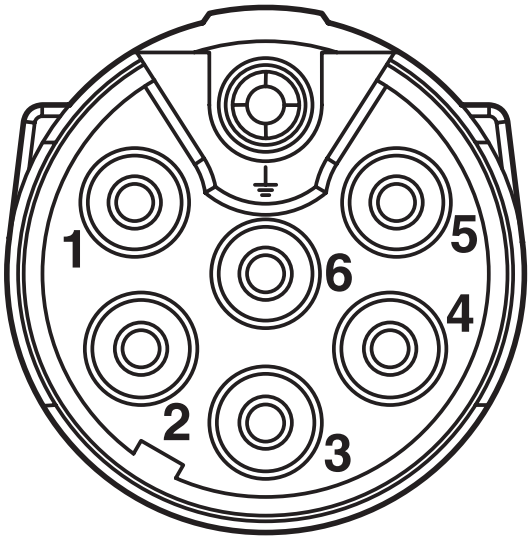
## Environmental and real-life conditions

### Ambient conditions

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

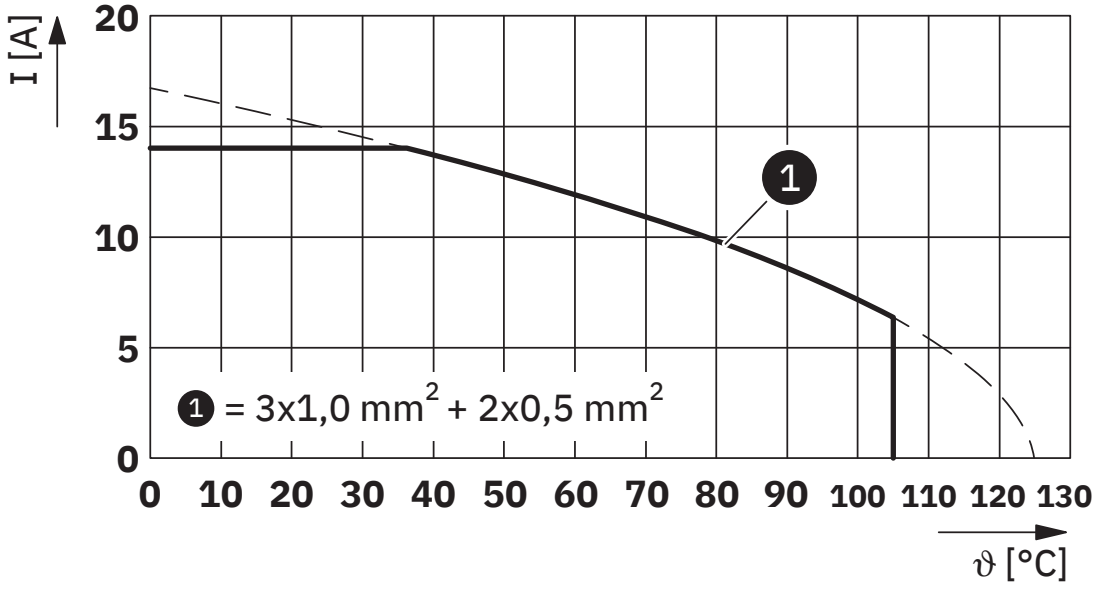
## Drawings

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/1629031

**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% |


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