# M17-6EP1N8AW500S - Device connector front mounting

1628916

https://www.phoenixcontact.com/us/products/1628916

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

M17, Device connector front mounting, application: Power, series: M17 PRO, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 6+PE, contact connection type: Pin, Crimp connection, flange dimensions: 26 mm x 26 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
- Modern, consistent design for highly convenient operation
- Crimping connection: vibration- and temperature-resistant assembly
- All housing can be fitted with pin or socket contacts
- Safe use in the field, thanks to high degree of protection

## Commercial data

| | |
|---|---|
| Item number | 1628916 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB30 |
| Product key | ABRBAL |
| GTIN | 4055626706917 |
| Weight per piece (including packing) | 49.3 g |
| Weight per piece (excluding packing) | 32.462 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 connectors (device side) |
| Product family | M17 PRO |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |

### 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 | Flange housing |
| Thread type | M17 |
| Design | straight |
| Type of locking | for standard and ONECLICK fast locking system |
| Mounting type | Front mounting/square flange (4x Ø 3.2 mm) |
| Flange dimensions | 26 mm x 26 mm |
| Housing material | GD-Zn |
| Seal material | FKM |
| Degree of protection (plugged in) | IP67 |
| | IP68 (2 m / 24 h) |

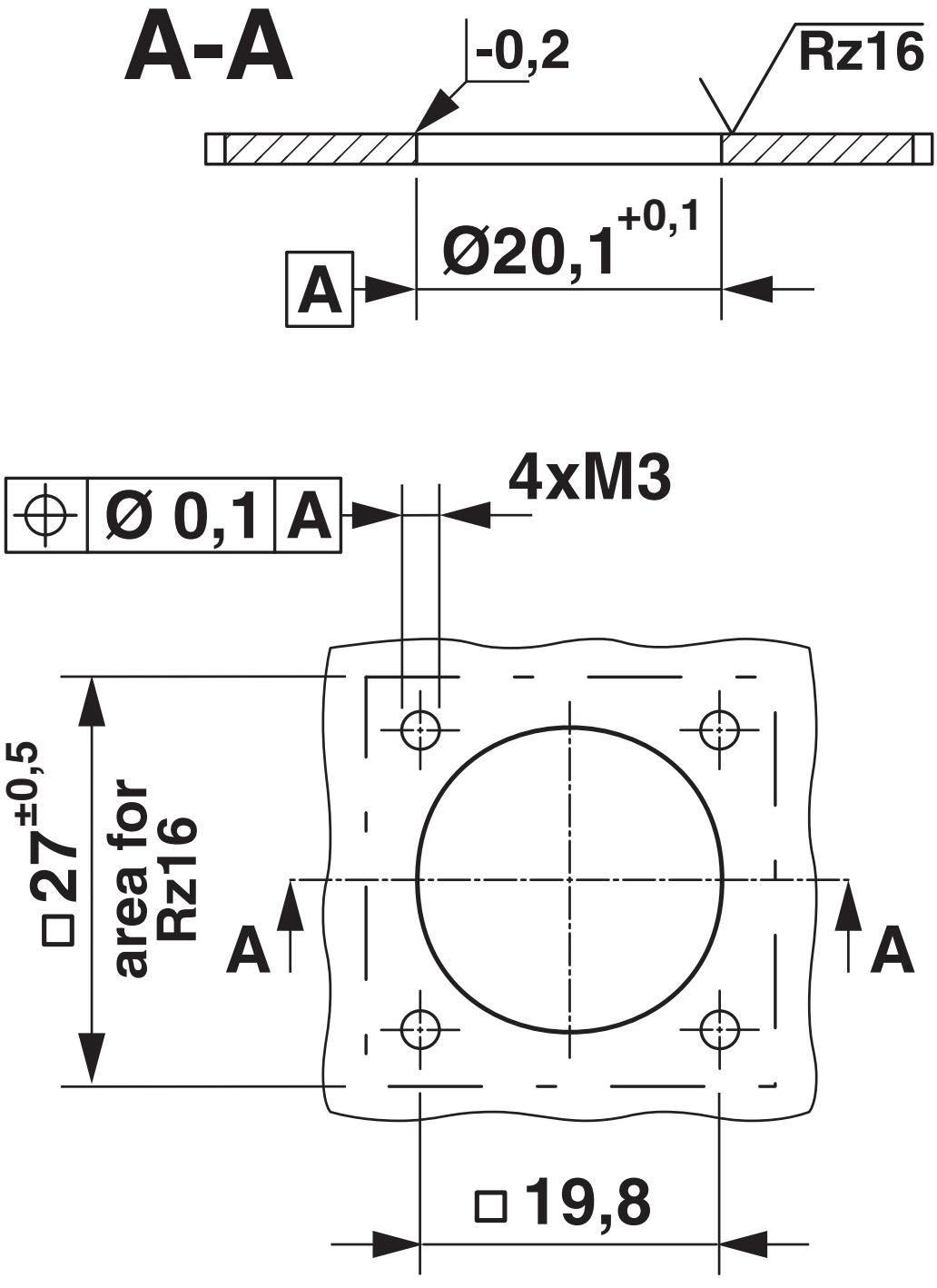
### Environmental and real-life conditions

Ambient conditions

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

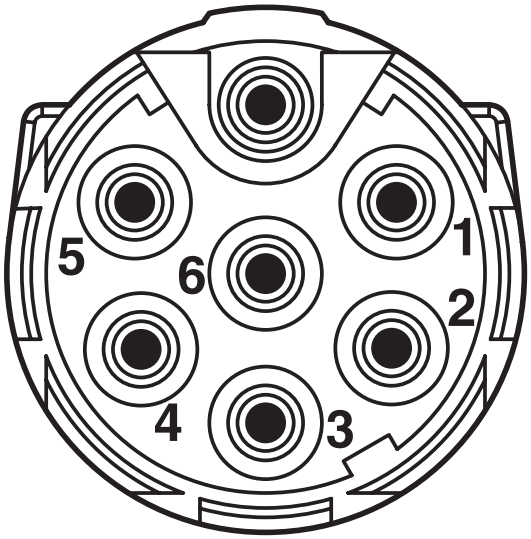
## Drawings

Dimensional drawing



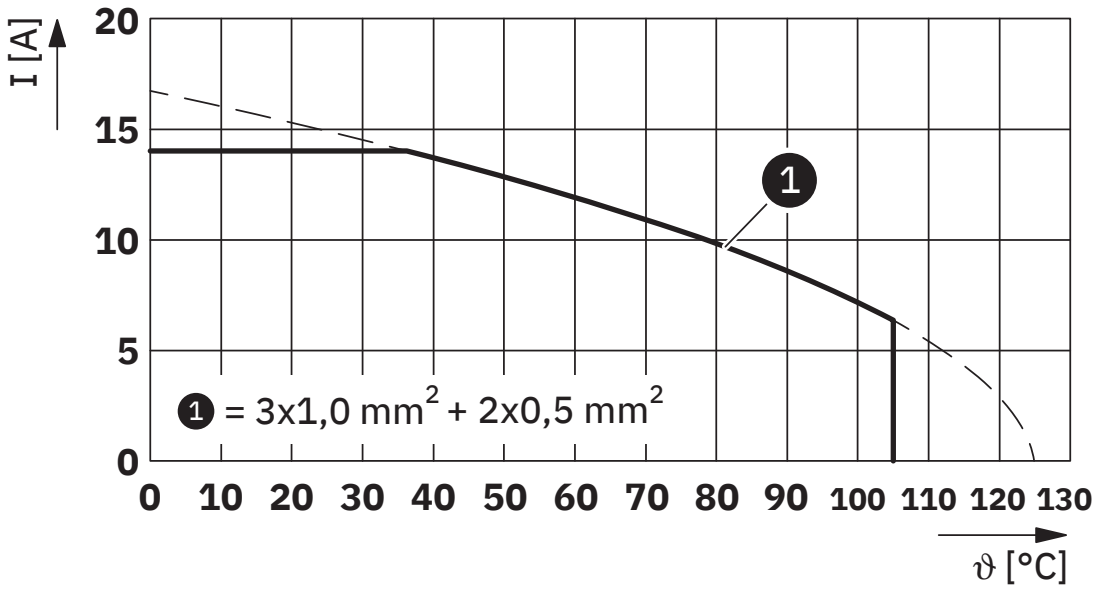

Installation dimensions

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/1628916

**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 | 27440109 |
| ECLASS-15.0 | 27440109 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC003569 |

### 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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