

# M17-7ESSA8AA200S - Device connector front mounting



1550189

<https://www.phoenixcontact.com/us/products/1550189>

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M17, Device connector front mounting, application: Data (unshielded), signals, power, series: M17 PRO, angled rotatable, for standard and ONECLICK fast locking system, contact connection type: Socket, Crimp connection, flange dimensions: 26 mm x 26 mm, coding: Type 2 (based on IEC 61076-2-117), Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- ONECLICK fast locking system with an optically, haptically, and acoustically clear locking position
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40
- 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                          | 1550189       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 20 pc         |
| Sales key                            | AB30          |
| Product key                          | ABRCAM        |
| GTIN                                 | 4067923026124 |
| Weight per piece (including packing) | 85.185 g      |
| Weight per piece (excluding packing) | 85.185 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |                                 |
|--------------------|---------------------------------|
| Order information: | Order crimp contacts separately |
|--------------------|---------------------------------|

### Safety note

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety note | <p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li><li>• Assembled products may not be manipulated or improperly opened.</li><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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li><li>• Ensure that the protective or functional ground has been properly connected.</li><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><li>• Only use tools recommended by Phoenix Contact</li><li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li><li>• Operate the connector only when it is fully plugged in and interlocked.</li><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li><li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li><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).

## Product properties

|                |                                   |
|----------------|-----------------------------------|
| Product type   | Circular connectors (device side) |
| Product family | M17 PRO HYBRID                    |
| Series         | M17 PRO                           |

## Material specifications

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

## Connector

### Insulating body

|                                                        |                                                                                                                    |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Note                                                   | Order information: Order crimp contacts separately. The contact assignment can be found in the installation notes. |
| Coding                                                 | Type 2 (based on IEC 61076-2-117)                                                                                  |
| Material (Insulating body)                             | PA 6.6                                                                                                             |
| Flammability rating according to UL 94                 | V0                                                                                                                 |
| Insertion/withdrawal cycles                            | 100                                                                                                                |
| Connection method                                      | Crimp connection                                                                                                   |
| Contact switching type                                 | Socket                                                                                                             |
| Application                                            | Data (unshielded), signals, power                                                                                  |
| Number of positions                                    | 12                                                                                                                 |
| Installation height                                    | 3000 m                                                                                                             |
| Number (Power contacts)                                | 4                                                                                                                  |
| Contact diameter (Power contacts)                      | 1 mm                                                                                                               |
| Litz wires Min. cross section (Power contacts)         | 0.06 mm <sup>2</sup>                                                                                               |
| Litz wires Max. cross section (Power contacts)         | 1.5 mm <sup>2</sup>                                                                                                |
| Rated current Contact (Power contacts)                 | 16 A (for max. connection cross section)                                                                           |
| Rated voltage Contact (Power contacts)                 | 630 V AC (Overvoltage category III/3)<br>850 V DC (Overvoltage category II/3)                                      |
| Rated surge voltage                                    | 6 kV                                                                                                               |
| Overvoltage category                                   | III                                                                                                                |
| Number (Data contacts)                                 | 4                                                                                                                  |
| Contact diameter (Data contacts)                       | 0.6 mm                                                                                                             |
| Litz wires Max. cross section (Data contacts)          | 0.34 mm <sup>2</sup>                                                                                               |
| Rated current Contact (Data contacts)                  | 3.6 A (for max. connection cross section)                                                                          |
| Rated voltage Contact (Data contacts)                  | 50 V                                                                                                               |
| Rated surge voltage                                    | 0.8 kV                                                                                                             |
| Overvoltage category                                   | III                                                                                                                |
| Degree of pollution                                    | 3                                                                                                                  |
| Number (Signal contact group 1)                        | 2                                                                                                                  |
| Contact diameter (Signal contact group 1)              | 1 mm                                                                                                               |
| Litz wires Max. cross section (Signal contact group 1) | 0.75 mm <sup>2</sup>                                                                                               |
| Rated current Contact (Signal contact group 1)         | 11 A (for max. connection cross section)                                                                           |

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|                                                |        |
|------------------------------------------------|--------|
| Rated voltage Contact (Signal contact group 1) | 50 V   |
| Rated surge voltage                            | 0.8 kV |
| Overvoltage category                           | III    |
| Degree of pollution                            | 3      |

## Housing

|                                   |                                               |
|-----------------------------------|-----------------------------------------------|
| Type                              | Flange housing                                |
| Thread type                       | M17                                           |
| Design                            | angled rotatable                              |
| Type of locking                   | for standard and ONECLICK fast locking system |
| Mounting type                     | Front mounting/square flange (4x M3)          |
| Flange dimensions                 | 26 mm x 26 mm                                 |
| Material (Housing)                | GD-Zn                                         |
| Material (Seal)                   | FKM                                           |
| Degree of protection (plugged in) | IP67                                          |
|                                   | IP68 (2 m / 24 h)                             |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C (see derating curve) |
|---------------------------------|----------------------------------------|

## Standards and regulations

|                          |                          |
|--------------------------|--------------------------|
| Standard designation     | M17 Hybrid               |
| Standards/specifications | based on IEC 61076-2-117 |

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## Drawings

Dimensional drawing



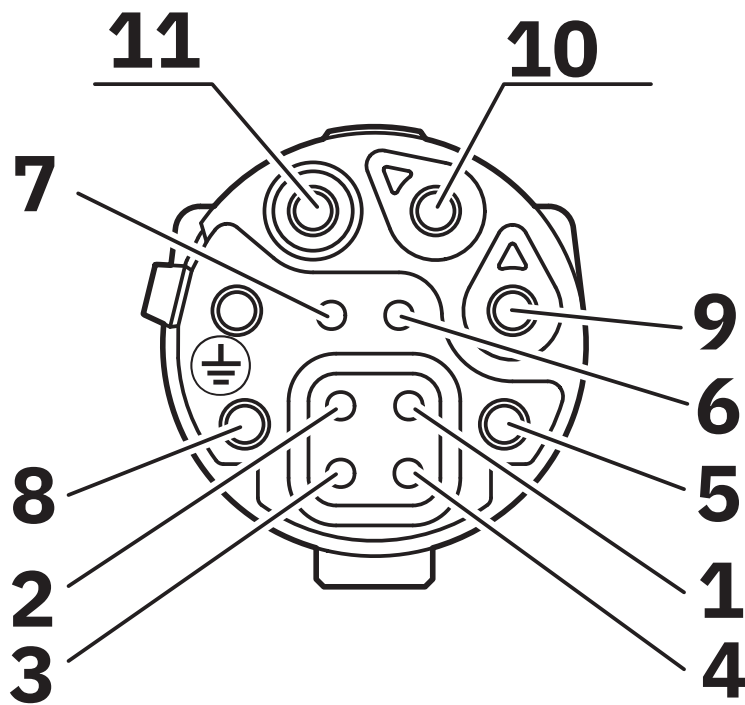
Installation dimensions

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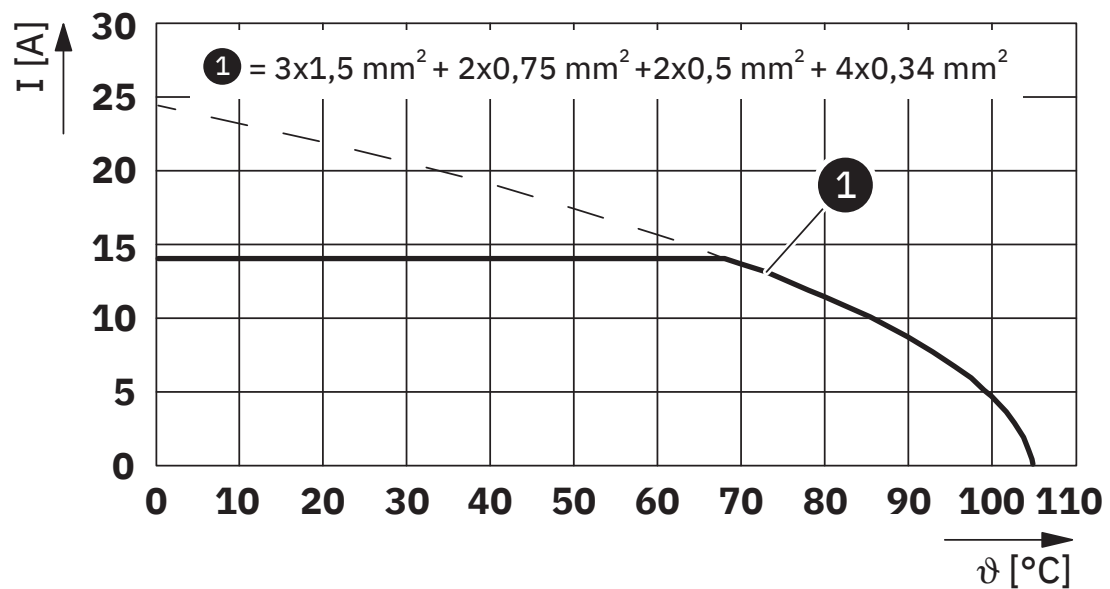
<https://www.phoenixcontact.com/us/products/1550189>

Schematic diagram



Socket pin assignment

Diagram



I = current strength, ϑ = ambient temperature, 3 x 14 A + 4 x 2 A constant + 4 x 0.1 A constant

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1550189>

|  <b>UL Listed</b><br>Approval ID: E468743 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                            | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                      |                       |                       |                   |                             |
| Power                                                                                                                      | 600 V                 | 14 A                  | - 16              | -                           |
| Signal                                                                                                                     | 50 V                  | 2 A                   | 20 - 19           | -                           |
| Data                                                                                                                       | 50 V                  | 0.1 A                 | - 22              | -                           |

|  <b>cUL Listed</b><br>Approval ID: E468743 |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                       |                       |                       |                   |                             |
| Power                                                                                                                       | 600 V                 | 12 A                  | - 16              | -                           |
| Signal                                                                                                                      | 50 V                  | 2 A                   | 20 - 19           | -                           |
| Data                                                                                                                        | 50 V                  | 0.1 A                 | - 22              | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

### ETIM

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

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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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