

# SACC-E-FS-5CON-M16/0,5-18AWG - Device connector front mounting



1020172

<https://www.phoenixcontact.com/us/products/1020172>

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Device connector front mounting, 5-position, Socket, straight, M12, A-coding, on free cable end, Individual wires, cable length: 0.5 m, 0.75 mm<sup>2</sup>, potted, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1020172       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB24          |
| Product key                          | ABQCFB        |
| GTIN                                 | 4055626516233 |
| Weight per piece (including packing) | 51.92 g       |
| Weight per piece (excluding packing) | 38.577 g      |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

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## Technical data

### Notes

#### 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></ul>  |
|  | <ul style="list-style-type: none"><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></ul> |
|  | <ul style="list-style-type: none"><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li></ul>   |
|  | <ul style="list-style-type: none"><li>• Assembled products may not be manipulated or improperly opened.</li></ul>  |
|  | <ul style="list-style-type: none"><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></ul>   |
|  | <ul style="list-style-type: none"><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li></ul>   |
|  | <ul style="list-style-type: none"><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li></ul>  |
|  | <ul style="list-style-type: none"><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 style="list-style-type: none"><li>• Observe the corresponding technical data. You will find information:<ul style="list-style-type: none"><li>o On the product</li><li>o On the packing label</li><li>o In the supplied documentation</li><li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li></ul></li></ul>  |
|  | <ul style="list-style-type: none"><li>• Only use tools recommended by Phoenix Contact</li></ul>  |
|  | <ul style="list-style-type: none"><li>• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a></li></ul>   |
|  | <ul style="list-style-type: none"><li>• Ensure that the protective or functional ground has been properly connected.</li></ul>   |
|  | <ul style="list-style-type: none"><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>  |
| <ul style="list-style-type: none"><li>• The connector warms up in normal operation. Depending on the</li></ul> |  |

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ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

## Mounting

|               |                            |
|---------------|----------------------------|
| Mounting type | Front mounting (M16 x 1,5) |
|---------------|----------------------------|

## Product properties

|                     |                                   |
|---------------------|-----------------------------------|
| Product type        | Circular connectors (device side) |
| Application         | Signal                            |
| Number of positions | 5                                 |
| Coding              | A                                 |
| Thread type         | M12                               |

## Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

## Material specifications

|                           |              |
|---------------------------|--------------|
| Material Molding compound | PUR (potted) |
|---------------------------|--------------|

## Electrical properties

|                       |           |
|-----------------------|-----------|
| Rated surge voltage   | 1.5 kV AC |
| Nominal voltage $U_N$ | 60 V      |
| Nominal current $I_N$ | 4 A       |

## Connection data

### Conductor connection

|                         |                      |
|-------------------------|----------------------|
| Connection method       | Individual wires     |
| Contact connection type | Socket               |
| Conductor cross-section | 0.75 mm <sup>2</sup> |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Coding            | A        |

### Connection 2

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|             |                |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

## Cable/line

|                     |                      |
|---------------------|----------------------|
| Cable length        | 0.5 m                |
| Cable cross section | 0.75 mm <sup>2</sup> |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                          |
|---------------------------------|--------------------------|
| Degree of protection            | IP67                     |
| Ambient temperature (operation) | -25 °C ... 85 °C         |
| UL Type Rating                  | Type 4 (indoor use only) |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-101 |

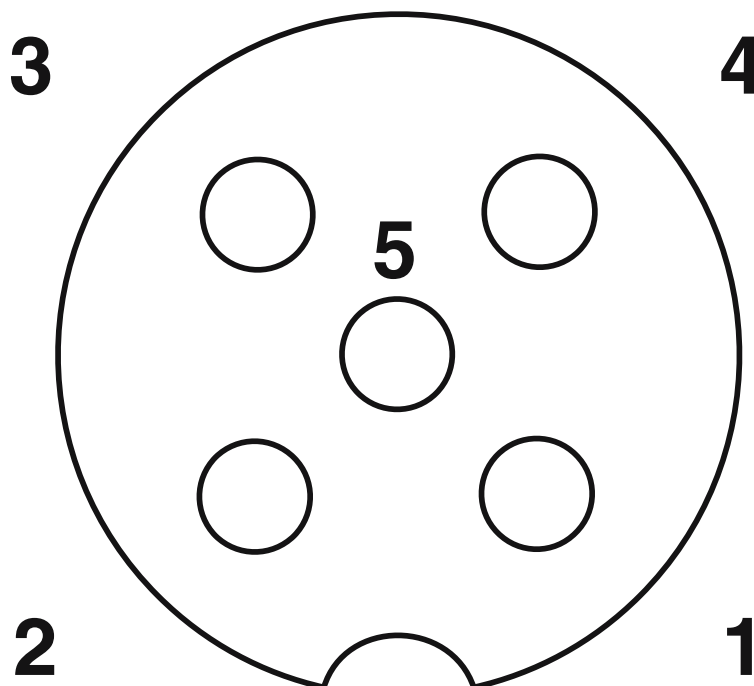
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## Drawings

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27440103 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003570 |
|-----------|----------|

### 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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