

# SACCBP-MS-17CON-M16/2,0-PVCSCO - Device connector rear mounting



1442311

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Device connector rear mounting, Universal, 17-position, PVC/PVC, black RAL 9005, shielded, Pin, straight, M12-SPEEDCON, A-coding, on free cable end, Cable connection, cable length: 2 m, 0.14 mm<sup>2</sup>, PVC black, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Your advantages

- Preassembled with cables in various standard lengths for immediate use
- Customer-specific assemblies and cable lengths can be supplied
- Sealed on the cable side for optimum tightness of seal
- For high transmission safety: shield connection to the housing with optional EMC nut

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1442311       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB25          |
| Product key                          | ABQDGA        |
| GTIN                                 | 4046356533423 |
| Weight per piece (including packing) | 188.6 g       |
| Weight per piece (excluding packing) | 180.185 g     |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
| Order information: | Lock nut is included in the scope of delivery                                                                                                                                                                                                                                                                                                      |

### Mounting

|                   |                                          |
|-------------------|------------------------------------------|
| Mounting type     | Rear mounting (M16 x 1.5, with flat nut) |
| Tightening torque | 3 Nm ... 4 Nm (Installation-side)        |

### Product properties

|                      |                                   |
|----------------------|-----------------------------------|
| Product type         | Circular connectors (device side) |
| Sensor type          | Universal                         |
| Number of positions  | 17                                |
| No. of cable outlets | 1                                 |
| Shielded             | yes                               |
| Coding               | A                                 |
| Thread type          | M12                               |

### Insulation characteristics

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

### Material specifications

|                                        |                          |
|----------------------------------------|--------------------------|
| Material Housing                       | GD-Zn                    |
| Material Housing surface               | Ni                       |
| Flammability rating according to UL 94 | V0                       |
| Seal material                          | FKM                      |
| Contact material                       | CuZn                     |
| Contact surface material               | Au                       |
| Contact carrier material               | PA 6.6                   |
| Outer sheath, material                 | PVC                      |
| Conductor material                     | Tin-plated Cu litz wires |

### Electrical properties

|                                |          |
|--------------------------------|----------|
| Rated surge voltage            | 0.8 kV   |
| Contact resistance             | ≤ 3 mΩ   |
| Insulation resistance          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 30 V     |

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|                           |                  |
|---------------------------|------------------|
| Nominal current $I_N$     | 1.5 A            |
| Max. conductor resistance | 142 $\Omega$ /km |

## Connection data

### Conductor connection

|                         |                                   |
|-------------------------|-----------------------------------|
| Connection method       | Cable connection                  |
| Contact connection type | Pin                               |
| Conductor cross-section | 0.14 mm <sup>2</sup>              |
| Tightening torque       | 3 Nm ... 4 Nm (Installation-side) |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 100   |
| Max. bending cycles         | 2000000 |

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Pin      |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Head locking type | SPEEDCON |
| Coding            | A        |

### Connection 2

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

## Cable/line

|                                 |                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable length                    | 2 m                                                                                                                                             |
| Cable type                      | PVC black                                                                                                                                       |
| Signal type/category            | Universal                                                                                                                                       |
| External cable diameter         | 9.20 mm                                                                                                                                         |
| Outer sheath, material          | PVC                                                                                                                                             |
| External sheath, color          | black RAL 9005                                                                                                                                  |
| Wire diameter incl. insulation  | 1.1 mm $\pm$ 0.05 mm                                                                                                                            |
| Single wire, color              | white-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue, white/green-brown/green, white/yellow-yellow/brown-white/gray |
| Cable cross section             | 0.14 mm <sup>2</sup>                                                                                                                            |
| Material, inner sheath          | PVC                                                                                                                                             |
| Conductor material              | Tin-plated Cu litz wires                                                                                                                        |
| Conductor structure signal line | 7x 0.16 mm                                                                                                                                      |
| AWG signal line                 | 26                                                                                                                                              |
| Material wire insulation        | PVC                                                                                                                                             |

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|                                 |                                                             |
|---------------------------------|-------------------------------------------------------------|
| Thickness, insulation           | 0.21 mm                                                     |
| Overall twist                   | Eight pairs around the filler to the core                   |
| Shielding                       | Tinned copper braided shield                                |
| Optical shield covering         | 85 %                                                        |
| Nominal voltage, cable          | 300 V                                                       |
| Test voltage, cable             | 2000 V AC                                                   |
| Cable resistance                | 142 Ω/km                                                    |
| Number of bending cycles        | 2000000                                                     |
| Bending radius                  | 92 mm                                                       |
| Traversing path                 | 10 m                                                        |
| Traversing rate                 | 3 m/s                                                       |
| Acceleration                    | 10 m/s <sup>2</sup>                                         |
| Resistance to oil               | DIN VDE 0472 Part 803, test type B                          |
| Flame resistance                | DIN VDE 0472 part 804, test type B                          |
| Other resistance                | Hydrolysis and microbe resistant as per VDE 0282 section 10 |
| Ambient temperature (operation) | -40 °C ... 85 °C (cable, fixed installation)                |
|                                 | -25 °C ... 85 °C (Cable, flexible installation)             |

## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                                 |
|-------------------------------------------------------------------|-------------------------------------------------|
| Degree of protection                                              | IP67 (When plugged in)                          |
|                                                                   | IP65 (When plugged in)                          |
|                                                                   | IP65/IP67                                       |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)                |
|                                                                   | -40 °C ... 85 °C (without mechanical actuation) |
| Ambient temperature (operation) (Cable, flexible installation)    | -25 °C ... 85 °C (Cable, flexible installation) |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 85 °C (cable, fixed installation)    |
| Resistance to oil                                                 | DIN VDE 0472 Part 803, test type B              |
| UL Type Rating                                                    | Type 4 (indoor use only)                        |

## Standards and regulations

|                          |                                                             |
|--------------------------|-------------------------------------------------------------|
| Flame resistance         | DIN VDE 0472 part 804, test type B                          |
| Resistance to oil        | DIN VDE 0472 Part 803, test type B                          |
| Other resistance         | Hydrolysis and microbe resistant as per VDE 0282 section 10 |
| Standard designation     | M12 circular connector                                      |
| Standards/specifications | according to IEC 61076-2-101                                |

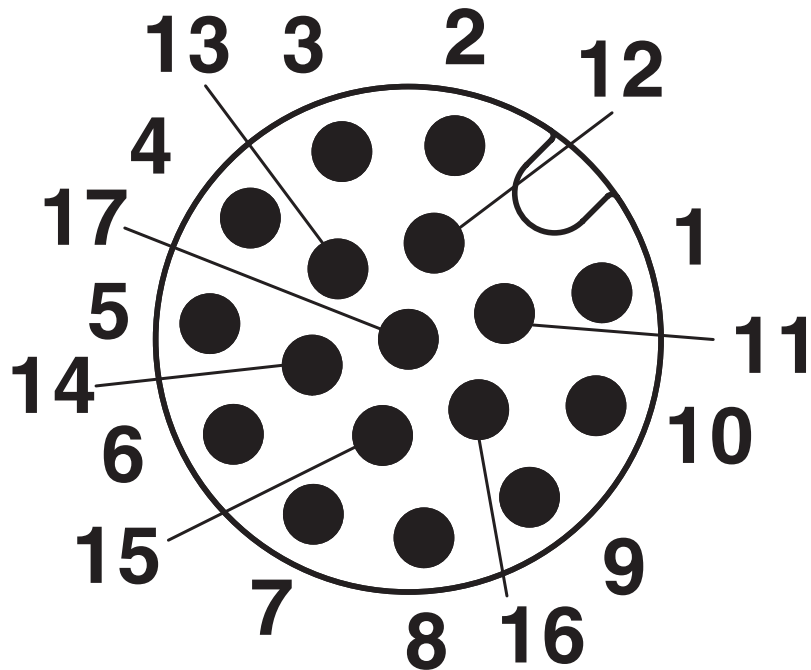
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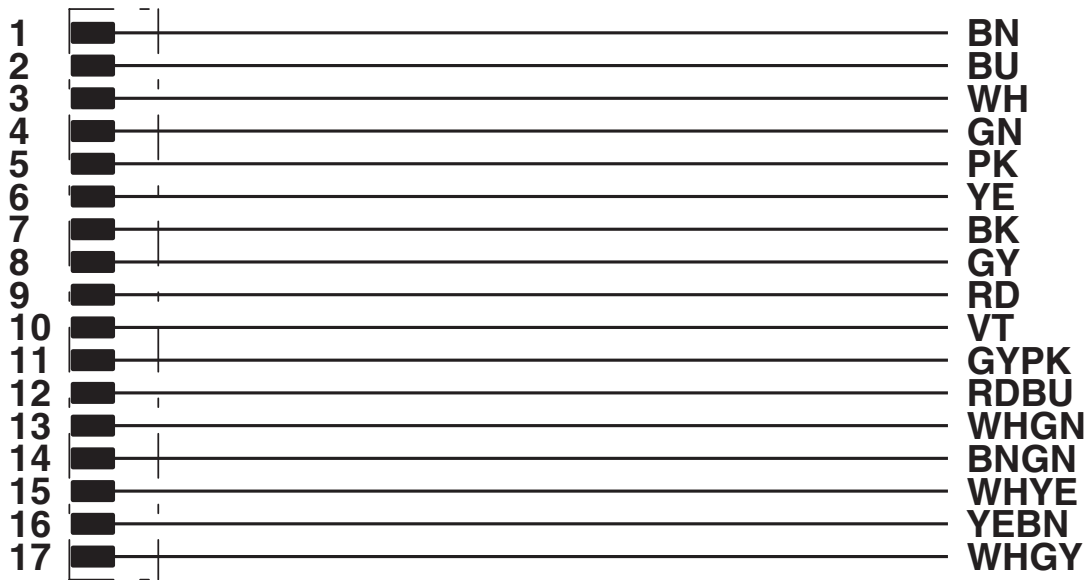
Drawings

Schematic diagram



Pin assignment of M12 male connector, 17-pos., A-coded, view of connector side

Circuit diagram



Contact assignment of the M12 plugs

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1442311>

|                                                                                                                                          |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: E221474-20220907 |                       |                       |                   |                             |
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                    |                       |                       |                   |                             |
|                                                                                                                                          | 30 V                  | 1.5 A                 | -                 | -                           |

|                                                                                                                                         |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: E221474-20220907 |                       |                       |                   |                             |
|                                                                                                                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                   |                       |                       |                   |                             |
|                                                                                                                                         | 30 V                  | 1.5 A                 | -                 | -                           |

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003570 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |      |
|-----------------------------------------|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | bc6e5936-a2df-4c16-b84c-eec097d26646 |

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