

# SAC-14P-15,0-PUR/M16FR - Master cable



1527472

<https://www.phoenixcontact.com/us/products/1527472>

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Master cable, application: Sensor/actuator box, number of slots: 10, number of positions: 14, slot assignment: single, status display: no; master cable connection: M16 plug connection, PUR/PVC, cable length: 15 m, shielding: no, 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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1527472       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB34          |
| Product key                          | ABRDAB        |
| GTIN                                 | 4017918958954 |
| Weight per piece (including packing) | 1,941.2 g     |
| Weight per piece (excluding packing) | 1,848.621 g   |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Master cable, assembled |
| Application         | Sensor/actuator box     |
| Number of positions | 14                      |
| Number of slots     | 10                      |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 48 V AC |
|                       | 60 V DC |

### Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Fixed connection |
|-------------------|------------------|

### Signaling

|                        |    |
|------------------------|----|
| Status display present | no |
|------------------------|----|

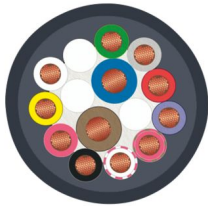
### Material specifications

|  |             |
|--|-------------|
| Material Housing   | PUR         |
| Material Threaded sleeve                                 | Cu alloy    |
| Seal material  | NBR         |
| Contact material   | CuZn        |
| Contact surface material                                 | Ni/Au       |
| Contact carrier material                                 | TPU GF      |
| Material of contact, master cable side                   | CU alloy    |
| Material of the contact carrier on the master cable side | TPU         |
| Material of contact surface, master cable side           | gold-plated |

### Cable/line

|              |      |
|--------------|------|
| Cable length | 15 m |
|--------------|------|

PUR/PVC black [PUR]

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Cable weight        | 111.1 kg/km  |
| UL AWM Style        | 20549  |
| Number of positions | 12   |

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|   |   |
|---|---|
| Shielded                                      | no  |
| Cable type                                    | PUR/PVC black [PUR]   |
| Conductor structure signal line               | 19x 0.15 mm   |
| AWG signal line                               | 22  |
| Conductor structure, voltage supply           | 42x 0.15 mm   |
| AWG power supply                              | 18  |
| Conductor cross-section                       | 10x 0.34 mm <sup>2</sup> (Signal line)<br>2x 0.75 mm <sup>2</sup> (power line)  |
| Wire diameter incl. insulation                | 1.3 mm ±0.1 mm (Signal line)<br>1.8 mm ±0.1 mm (power line)   |
| External cable diameter                       | 8.60 mm ±0.2 mm   |
| Outer sheath, material                        | PUR   |
| External sheath, color                        | black RAL 9005  |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PVC   |
| Single wire, color                            | brown, blue, white, green, yellow, gray, pink, red, black, violet, white/pink, pink/brown                                 |
| Inner sheath thickness                        | ≥ 0.15 mm   |
| Thickness, outer sheath                       | ≥ 0.38 mm   |
| Overall twist                                 | Wires twisted in layers   |
| Nominal voltage, cable                        | 300 V   |
| Test voltage                                  | 2000 V  |
| Minimum bending radius, fixed installation    | 7.5 x D   |
| Minimum bending radius, flexible installation | 10 x D  |
| Smallest bending radius, fixed installation   | 65 mm   |
| Smallest bending radius, movable installation | 86 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 1500000, Bending radius: 86 mm, Traversing path: 2 m, Traversing rate: 2 m/s                         |
| Flame resistance                              | DIN EN 50265  |
| Resistance to oil                             | according to VDE 0472 Part 803  |
| Other resistance                              | Highly resistant to acids, alkaline solutions and solvents  |
| Special properties                            | Silicone-free   |
| Ambient temperature (operation)               | -40 °C ... 90 °C (cable, fixed installation)<br>-5 °C ... 80 °C (Cable, flexible installation)<br>80 °C (in acc. with UL) |

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection  | IP67   |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket)             |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 90 °C (cable, fixed installation) |

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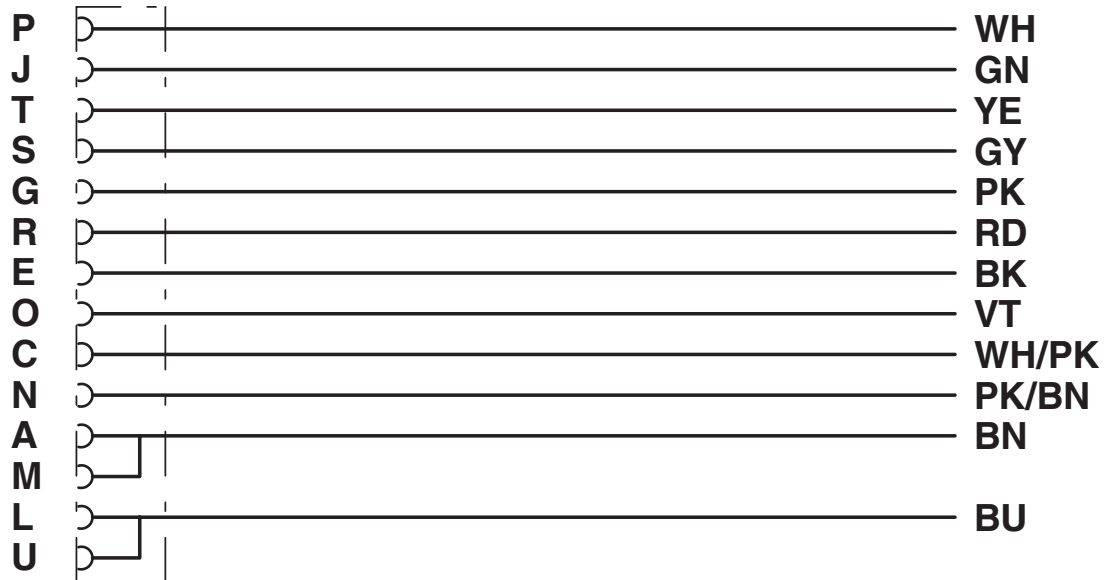


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## Drawings

Circuit diagram



Contact assignment of the M16 socket

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1527472>



**EAC**

Approval ID: 19060508

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27061801 |
| ECLASS-15.0 | 27061801 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003249 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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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                                | 77702587-2562-418a-8f81-eee874c289cc |

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