

# SAC-4P- 5,0-140/M12FS YE - Sensor/actuator cable



1566129

<https://www.phoenixcontact.com/us/products/1566129>

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Sensor/actuator cable, 4-position, PUR/PVC, yellow, free cable end, on Socket straight M12, coding: A, cable length: 5 m

as in the figure, but with a yellow handle and a yellow conductor

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1566129       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1CCA        |
| GTIN                                 | 4046356325004 |
| Weight per piece (including packing) | 200.32 g      |
| Weight per piece (excluding packing) | 200.32 g      |
| Country of origin                    | DE            |

## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Number of positions  | 4                     |
| No. of cable outlets | 1                     |
| Shielded             | no                    |
| Coding               | A                     |

### Insulation characteristics

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

### Material specifications

|  |   |
|--|---|
| Flammability rating according to UL 94 | HB  |
| Seal material                          | NBR   |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Contact material                       | CuSn  |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | TPU GF                                      |
| Material for screw connection          | Zinc die-cast, nickel-plated                |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 250 V                      |
| Nominal current $I_N$ | 4 A                        |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Signaling

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

### Connector

#### Connection 1

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

#### Connection 2

|                     |                     |
|---------------------|---------------------|
| Type                | Socket straight M12 |
| Number of positions | 4                   |
| Coding type         | A                   |

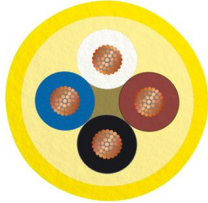
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## Cable/line

|   |   |
|---|---|
| Cable length                                  | 5 m   |
| PUR/PVC yellow [140]                          |   |
| Dimensional drawing                           |                     |
| Cable weight                                  | 39 kg/km  |
| UL AWM Style                                  | 20549   |
| Number of positions                           | 4   |
| Shielded                                      | no  |
| Cable type                                    | PUR/PVC yellow [140]  |
| Conductor structure signal line               | 42x 0.10 mm   |
| AWG signal line                               | 22  |
| Conductor cross-section                       | 4x 0.34 mm <sup>2</sup> (Signal line)   |
| Wire diameter incl. insulation                | 1.5 mm ±0.05 mm   |
| External cable diameter                       | 5.20 mm ±0.2 mm   |
| Outer sheath, material                        | PUR   |
| External sheath, color                        | yellow  |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PVC   |
| Single wire, color                            | brown, white, blue, black   |
| Thickness, insulation                         | approx. 0.30 mm (Core insulation)<br>≥ 0.38 mm (Outer cable sheath)<br>approx. 0.35 mm (Inner sheath) |
| Overall twist                                 | 4 wires, twisted  |
| Max. conductor resistance                     | max. 58 Ω/km (at 20 °C)   |
| Insulation resistance                         | ≥ 1 GΩ*km (at 20 °C)  |
| Nominal voltage, cable                        | ≤ 300 V   |
| Test voltage                                  | ≥ 3000 V  |
| Smallest bending radius, fixed installation   | 52 mm   |
| Smallest bending radius, movable installation | 52 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 2000000, Bending radius: 52 mm, Traversing path: 5 m, Traversing rate: 3 m/s     |
| Flame resistance                              | in accordance with DIN UL-Style 20549   |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)<br>-5 °C ... 80 °C (Cable, flexible installation)        |

## Environmental and real-life conditions

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## Ambient conditions

|                                 |  |
|---------------------------------|--|
| Degree of protection            | IP65   |
|                                 | IP67   |
|                                 | IP68   |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket)               |
|                                 | -25 °C ... 80 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (Cable, flexible installation) |

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## Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

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## Environmental product compliance

### 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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