

# SAC-5P-P12MR/10,0-PUR - Sensor/actuator cable



1395805

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12 Push Pull, coding: A, on free cable end, cable length: 10 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save time, thanks to installation with push-pull fast locking

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1395805       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AF1CDC        |
| Product key                          | AF1CDC        |
| GTIN                                 | 4063151818104 |
| Weight per piece (including packing) | 312,8 g       |
| Weight per piece (excluding packing) | 320,4 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

## Technical data

### Product properties

|                      |          |
|----------------------|----------|
| Application          | Standard |
| Number of positions  | 5        |
| No. of cable outlets | 1        |
| Shielded             | no       |
| Coding               | A        |

### Insulation characteristics

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

### Material specifications

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Material                               | PK (Pin contact carrier)                    |
| Flammability rating according to UL 94 | V0                                          |
| Seal material                          | FKM                                         |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Contact material                       | CuSn                                        |
| Contact surface material               | Ni/Au                                       |
| Material for screw connection          | Brass, nickel-plated                        |

### Electrical properties

|                                |          |
|--------------------------------|----------|
| Insulation resistance          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 48 V AC  |
|                                | 60 V DC  |
| Nominal current I <sub>N</sub> | 4 A      |

### Mechanical properties

#### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

### Signaling

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

### Connector

#### Connection 1

|                     |                           |
|---------------------|---------------------------|
| Type                | Plug angled M12 Push Pull |
| Number of positions | 5                         |
| Locking type        | Push Pull                 |
| Coding type         | A                         |

#### Connection 2

# SAC-5P-P12MR/10,0-PUR - Sensor/actuator cable



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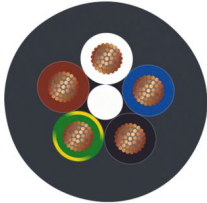
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|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

## Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

### PUR halogen-free black [PUR]

|                                               |                                                                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                           |                                                                              |
| Cable weight                                  | 33 kg/km                                                                                                                                                       |
| UL AWM Style                                  | 20549                                                                                                                                                          |
| Number of positions                           | 5                                                                                                                                                              |
| Shielded                                      | no                                                                                                                                                             |
| Cable type                                    | PUR halogen-free black [PUR]                                                                                                                                   |
| Conductor structure signal line               | 42x 0.10 mm                                                                                                                                                    |
| AWG signal line                               | 22                                                                                                                                                             |
| Conductor cross-section                       | 5x 0.34 mm <sup>2</sup> (Signal line)                                                                                                                          |
| Wire diameter incl. insulation                | 1.27 mm 0.05 mm (Signal line)                                                                                                                                  |
| External cable diameter                       | 4.55 mm ±0.15 mm                                                                                                                                               |
| Outer sheath, material                        | PUR                                                                                                                                                            |
| External sheath, color                        | black-gray RAL 7021                                                                                                                                            |
| Conductor material                            | Bare Cu litz wires                                                                                                                                             |
| Material wire insulation                      | PP                                                                                                                                                             |
| Single wire, color                            | brown, white, blue, black, green-yellow                                                                                                                        |
| Thickness, insulation                         | approx. 0.50 mm                                                                                                                                                |
| Max. conductor resistance                     | max. 58 Ω/km (at 20 °C)                                                                                                                                        |
| Insulation resistance                         | ≥ 16 GΩ*km (at 20 °C)                                                                                                                                          |
| Nominal voltage, cable                        | 300 V                                                                                                                                                          |
| Test voltage                                  | 3000 V                                                                                                                                                         |
| Smallest bending radius, fixed installation   | 23 mm                                                                                                                                                          |
| Smallest bending radius, movable installation | 46 mm                                                                                                                                                          |
| Dynamic load capacity (bending)               | Max. bending cycles: 10000000, Bending radius: 46 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup> |
| Dynamic load capacity (torsion)               | Torsion: ±180 °/m, Torsion cycles: ≥2000000, Torsional frequency: 35 cycles/min.                                                                               |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                                                                                                                       |
| Flame resistance                              | in accordance with UL 758/1581 FT2<br>DIN EN 60332-2-2 (20 s)                                                                                                  |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                                                                                                            |

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|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents          |
|                                 | hydrolysis and microbe resistant                                    |
|                                 | Resistant to salt water                                             |
|                                 | partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)        |
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free                                                       |
|                                 | Free of substances which would hinder coating with paint or varnish |
|                                 | flexible                                                            |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                        |
|                                 | -25 °C ... 80 °C (Cable, flexible installation)                     |

## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                  |
|-------------------------------------------------------------------|----------------------------------|
| Degree of protection                                              | IP65                             |
|                                                                   | IP67                             |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket) |

## Standards and regulations

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12-Push-Pull   |
| Standards/specifications | IEC 61076-2-010 |

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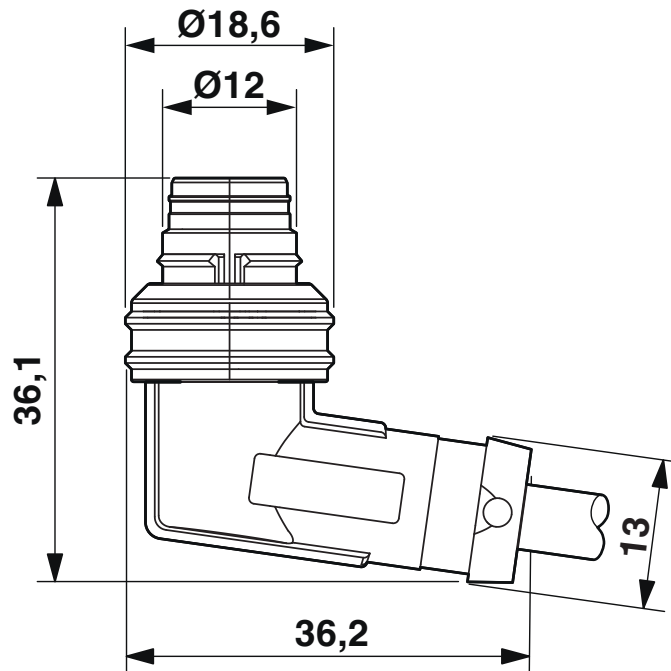
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## Drawings

Dimensional drawing



M12 push-pull male connector, angled

Schematic diagram



Pin assignment M12 male connector

Circuit diagram



Contact assignment of the M12 plug

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1395805>

|                                                                                                                                          |                                |                                |                   |                               |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| <div><b>cULus Listed</b><br/>Approval ID: E221474</div> |                                |                                |                   |                               |
|                                                                                                                                          | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                    |                                |                                |                   |                               |
|                                                                                                                                          | 125 V                          | 4 A                            | - 22              | -                             |

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### UNSPSC

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

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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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 6,351 kg CO2e |
|---------|---------------|

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