

# SAC-5P-M12MS/1,5-PUR/M12FR-3L

Order No.: 1694651



<http://eshop.phoenixcontact.se/phoenix/treeViewClick.do?UID=1694651>

Sensor/Actuator cable, 5-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, angled M12, A-coded, Cable length: 1.5 m

## Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 017918 459246 |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 87 (PC-2009)                                                                                     |

## Product notes

WEEE/RoHS-compliant since:  
2006-11-17



## Technical data

### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 24 V                       |
| Number of positions   | 5                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 1.5 m                      |

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector) |
|---------------------------------|------------------------------------------------------|

**General characteristics**

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Standards/regulations       | M12 connector IEC 61076-2-101               |
| Coding                      | A - standard                                |
| Surge voltage category      | II                                          |
| Pollution degree            | 3                                           |
| Degree of protection        | IP65/IP68/IP69K                             |
| Insertion/withdrawal cycles | ≥ 100                                       |
| Contact material            | CuSn                                        |
| Contact surface material    | Ni/Au                                       |
| Contact carrier material    | TPU GF                                      |
| Material of grip body       | TPU, hardly inflammable, self-extinguishing |
| Material, knurls            | Zinc die-cast, (nickel-plated)              |
| Sealing material            | NBR                                         |
| Status display              | 3 LEDs                                      |

**Conductor data**

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| Cable type                         | PUR halogen-free black                  |
| Cable type (abbreviation)          | PUR                                     |
| Conductor cross section            | 0.34 mm <sup>2</sup>                    |
| AWG signal line                    | 22                                      |
| Conductor structure signal line    | 42x 0.10 mm                             |
| Core diameter including insulation | 1.27 mm ±0.05 mm                        |
| External cable diameter            | 5.00 mm                                 |
| Wire colors                        | brown, blue, white, black, green/yellow |
| External sheath, color             | Black-gray RAL 7021                     |
| Outer sheath, material             | PUR                                     |
| Conductor material                 | Bare Cu litz wires                      |
| Cable weight                       | 35 kg/km                                |
| Number of bending cycles           | 4000000                                 |
| Bending radius                     | 50 mm                                   |
| Traversing path                    | 10 m                                    |
| Traversing rate                    | 3 m/s                                   |
| Acceleration                       | 10 m/s <sup>2</sup>                     |

|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                        |
|                                 | -5 °C ... 80 °C (cable, flexible installation)                      |
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free                                                       |
|                                 | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                | in accordance with DIN UL-Style 20549                               |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                            |
| Resistance to oil               | in accordance with DIN EN 60811-2-1                                 |
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents          |
|                                 | hydrolysis and microbe resistant                                    |

#### Certificates

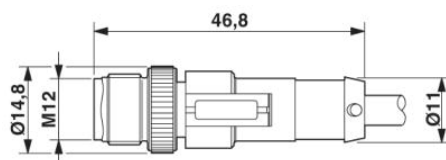


Certification

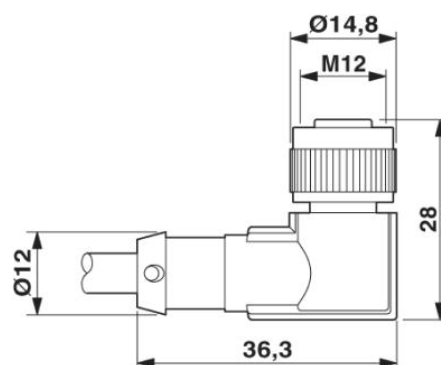
CUL Listed, GOST, UL Listed

#### Drawings

Dimensioned drawing

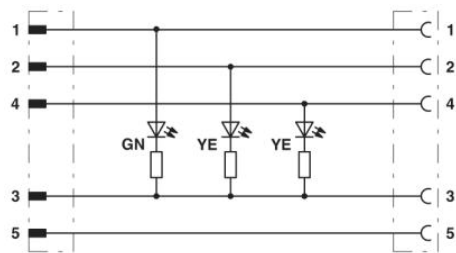


M12 x 1 male connector, straight



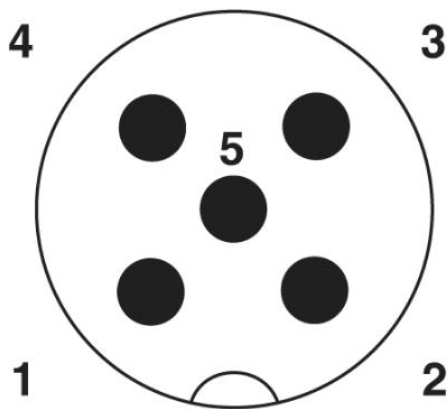
M12 x 1 female connector, angled

### Circuit diagram

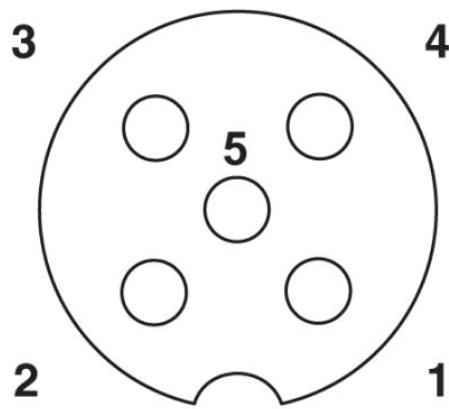


Contact assignment of M12 connectors / sockets with 3 LEDs

### Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side



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