

# SAC-3P-M12Y/2X0,6-PUR/M 8FR-2L

Order No.: 1671425



Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, angled M8, with 2 LEDs and Socket, angled M8, A-coded, with 2 LEDs, Cable length: 0.6 m

## Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 017918 135256 |
| Note                     | Made-to-order                                                                                         |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 100 (PC-2009)                                                                                    |

## Product notes

WEEE/RoHS-compliant since:  
2008-06-03



## Technical data

### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 24 V                       |
| Number of positions   | 3                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Length of cable                 | 0.6 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              | 2 LEDs                                      |

**Conductor data**

|                                    |                             |
|------------------------------------|-----------------------------|
| Cable type                         | PUR halogen-free black      |
| Cable type (abbreviation)          | PUR                         |
| Cable abbreviation                 | Li9Y11Y-HF                  |
| Conductor cross section            | 0.25 mm <sup>2</sup>        |
| AWG signal line                    | 24                          |
| Conductor structure signal line    | 32 x 0.10 mm                |
| Core diameter including insulation | 1.15 mm ±0.05 mm            |
| Thickness, insulation              | ≥ 0.38 mm (Core insulation) |
| External cable diameter            | 4.40 mm                     |
| Wire colors                        | Brown, blue, black          |
| External sheath, color             | Black-gray RAL 7021         |
| Insulation resistance              | ≥ 100 GΩ*km                 |
| Conductor resistance               | ≤ 77.6 Ω/km                 |
| Nominal voltage, conductor         | 300 V                       |
| Test voltage, conductor            | 4000 V                      |
| Overall twist                      | 3 wires, twisted            |
| Outer sheath, material             | PUR                         |

|                                               |                                                                     |
|-----------------------------------------------|---------------------------------------------------------------------|
| Material conductor insulation                 | PP                                                                  |
| Conductor material                            | Bare Cu litz wires                                                  |
| Cable weight                                  | 23 kg/km                                                            |
| Smallest bending radius, movable installation | 44 mm                                                               |
| Number of bending cycles                      | 4000000                                                             |
| Bending radius                                | 44 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

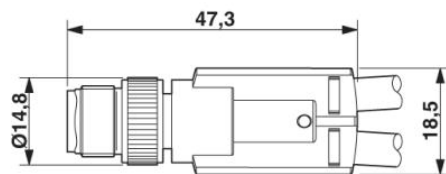


Certification

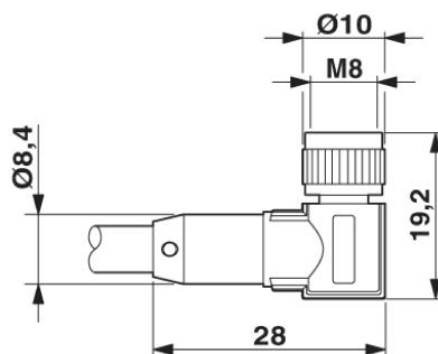
CUL Listed, GOST, UL Listed

## Drawings

### Dimensioned drawing

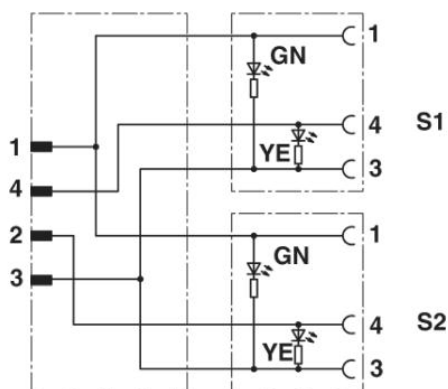


Plug M12 x 1, Y distributor



Socket M8 x 1, angled

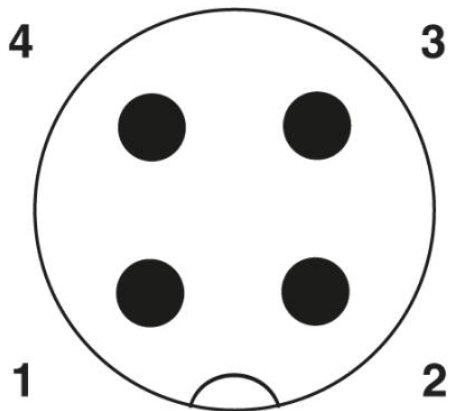
### Circuit diagram



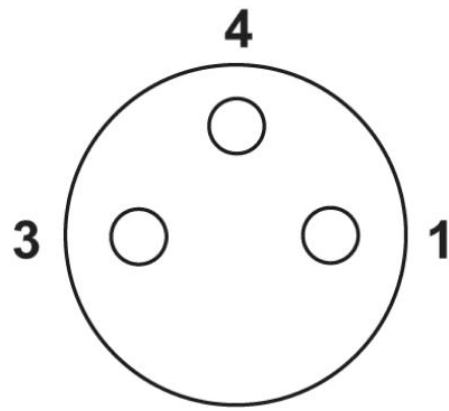
Contact assignment of M12 plugs / M8 sockets

Schematic diagram

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Pin assignment M12 Y plug, 4-pos., A-coded, view plug side



Pin assignment M8 socket, 3-pos., view female side