

## SAC-8P- 1,5-PUR/M12FS

Order No.: 1522590

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1522590>

Sensor/Actuator cable, 8-position, PUR, halogen-free, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 1.5 m

### Commercial data

|                          |                   |
|--------------------------|-------------------|
| EAN                      | 4017918957438     |
| Pack                     | 1 pcs.            |
| Customs tariff           | 85444290          |
| Weight/Piece             | 0.0816 KG         |
| Catalog page information | Page 93 (PC-2009) |

### Product notes

WEEE/RoHS-compliant since:  
09/25/2006



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### Technical data

#### General data

|                       |                          |
|-----------------------|--------------------------|
| Nominal current $I_N$ | 2 A                      |
| Nominal voltage $U_N$ | 30 V                     |
| Number of positions   | 8                        |
| Volume resistance     | $\leq 5 \text{ m}\Omega$ |

|                                            |                                |
|--------------------------------------------|--------------------------------|
| Insulation resistance                      | $\geq 100 \text{ M}\Omega$     |
| Length of cable                            | 1.5 m                          |
| Stripping length of the free conductor end | 50 mm                          |
| Ambient temperature (operation)            | -25 °C ... 90 °C (plug/socket) |

#### General characteristics

|                          |                                             |
|--------------------------|---------------------------------------------|
| Coding                   | A - standard                                |
| Surge voltage category   | II                                          |
| Pollution degree         | 3                                           |
| Degree of protection     | IP65/IP68/IP69K                             |
| Contact material         | CuZn                                        |
| 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           | No                                          |

#### Conductor data

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Cable type                         | PUR halogen-free black                               |
| Cable type (abbreviation)          | PUR                                                  |
| Cable abbreviation                 | Li9Y11Y                                              |
| 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 | 1.17 mm $\pm$ 0.02 mm                                |
| Thickness, insulation              | $\geq 0.21 \text{ mm}$ (Core insulation)             |
|                                    | Approx. 0.8 mm (Outer cable sheath)                  |
| External cable diameter            | 5.9 mm $\pm$ 0.15 mm                                 |
| Wire colors                        | Brown, blue, white, gray, pink, red, yellow, green   |
| External sheath, color             | Black-gray RAL 7021                                  |
| Insulation resistance              | $\geq 100 \text{ M}\Omega \cdot \text{km}$ (at 20°C) |
| Conductor resistance               | max. 78 $\Omega/\text{km}$ (at 20°C)                 |
| Nominal voltage, conductor         | $\leq 300 \text{ V}$                                 |
| Test voltage, conductor            | $\geq 3000 \text{ V}$                                |
| Overall twist                      | 8 wires around filler to the core                    |

|                                               |                                                                     |
|-----------------------------------------------|---------------------------------------------------------------------|
| Outer sheath, material                        | PUR                                                                 |
| Material, filler                              | PE                                                                  |
| Material conductor insulation                 | PP                                                                  |
| Conductor material                            | Bare Cu litz wires                                                  |
| Cable weight                                  | 46 kg/km                                                            |
| Smallest bending radius, fixed installation   | 59 mm                                                               |
| Smallest bending radius, movable installation | 59 mm                                                               |
| Number of bending cycles                      | 4000000                                                             |
| Bending radius                                | 59 mm                                                               |
| Traversing path                               | 10 m                                                                |
| Traversing rate                               | 3 m/s                                                               |
| Acceleration                                  | 10 m/s <sup>2</sup>                                                 |
| Special properties                            | Flexible cable conduit capable                                      |
|                                               | Silicone-free                                                       |
|                                               | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                              | As per UL-Style 20549                                               |
| Freedom from halogen                          | As per DIN VDE 0472 part 815                                        |
| Resistance to oil                             | complying with DIN EN 60811-2-1                                     |
| Other resistance                              | Highly resistant to acids, alkaline solutions and solvents          |
|                                               | hydrolysis and microbe resistant                                    |

#### Certificates / Approvals

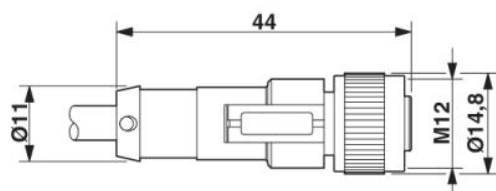


Certification

CUL Listed, UL Listed

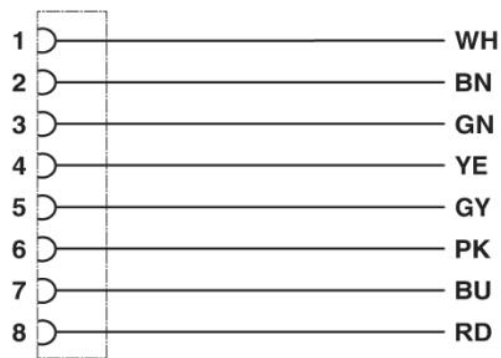
#### Diagrams/Drawings

Dimensioned drawing



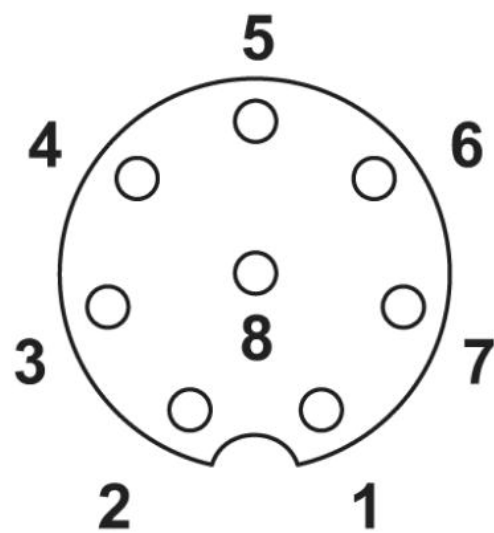
M12 x 1 female connector, straight

Circuit diagram



Contact assignment of the M12 socket

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

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