


# Sensor/actuator cable - SAC-8P-30,0-PUR/M12FS VA - 1401260

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, cable length: 30 m



## Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 1 pc  |
| Minimum order quantity | 50 pc   |
| GTIN                   | <br>4 046356 543460 |
| GTIN                   | 4046356543460   |

## Technical data

### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 30 m |
|-----------------|------|

### General

|                             |         |
|-----------------------------|---------|
| Rated voltage               | 30 V AC |
|                             | 30 V DC |
| Number of positions         | 8       |
| Insertion/withdrawal cycles | ≥ 100   |

### Cable

|                                    |  |
|------------------------------------|--|
| Cable type                         | PUR halogen-free black                             |
| Cable type (abbreviation)          | PUR  |
| Cable abbreviation                 | Li9Y11Y  |
| UL AWM style                       | 20549 / 10493 (80°C/300 V)                         |
| Conductor cross section            | 8x 0.25 mm <sup>2</sup>                            |
| AWG signal line                    | 24   |
| Conductor structure signal line    | 32x 0.10 mm  |
| Core diameter including insulation | 1.17 mm ±0.02 mm                                   |
| Thickness, insulation              | ≥ 0.21 mm  |
| Wire colors                        | white, brown, green, yellow, gray, pink, blue, red |
| Overall twist                      | 8 wires around filler to the core                  |
| External sheath, color             | black-gray RAL 7021                                |
| Outer sheath thickness             | approx. 0.8 mm                                     |
| External cable diameter D          | 5.9 mm ±0.15 mm                                    |

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## Technical data

### Cable

|   |   |
|---|---|
| Minimum bending radius, fixed installation    | 8 x D   |
| Minimum bending radius, flexible installation | 10 x D  |
| 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>   |
| Cable weight                                  | 46 kg/km  |
| Outer sheath, material                        | PUR   |
| Material, filler                              | PE  |
| Material conductor insulation                 | PP  |
| Conductor material                            | Bare Cu litz wires  |
| Conductor resistance                          | ≤ 78 Ω/km   |
| Cable capacity                                | ≤ 70 pF/m   |
| Wave impedance                                | 100 Ω +15 % (with 1 MHz)  |
| Conductor inductance                          | approx. 0.6 mH/km (with 1 MHz)                                      |
| Nominal voltage, cable                        | ≤ 300 V   |
| Test voltage, cable                           | ≥ 3000 V  |
| Special properties                            | Flexible cable conduit capable                                      |
|   | Silicone-free   |
|   | Free of substances which would hinder coating with paint or varnish |
|   | flexible  |
| 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                                    |
|   | partly UV-resistant in accordance with DIN EN ISO 4892-2-A          |
|   | Low adhesion  |
|   | abrasion-resistant  |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)                        |
|   | -25 °C ... 80 °C (cable, flexible installation)                     |

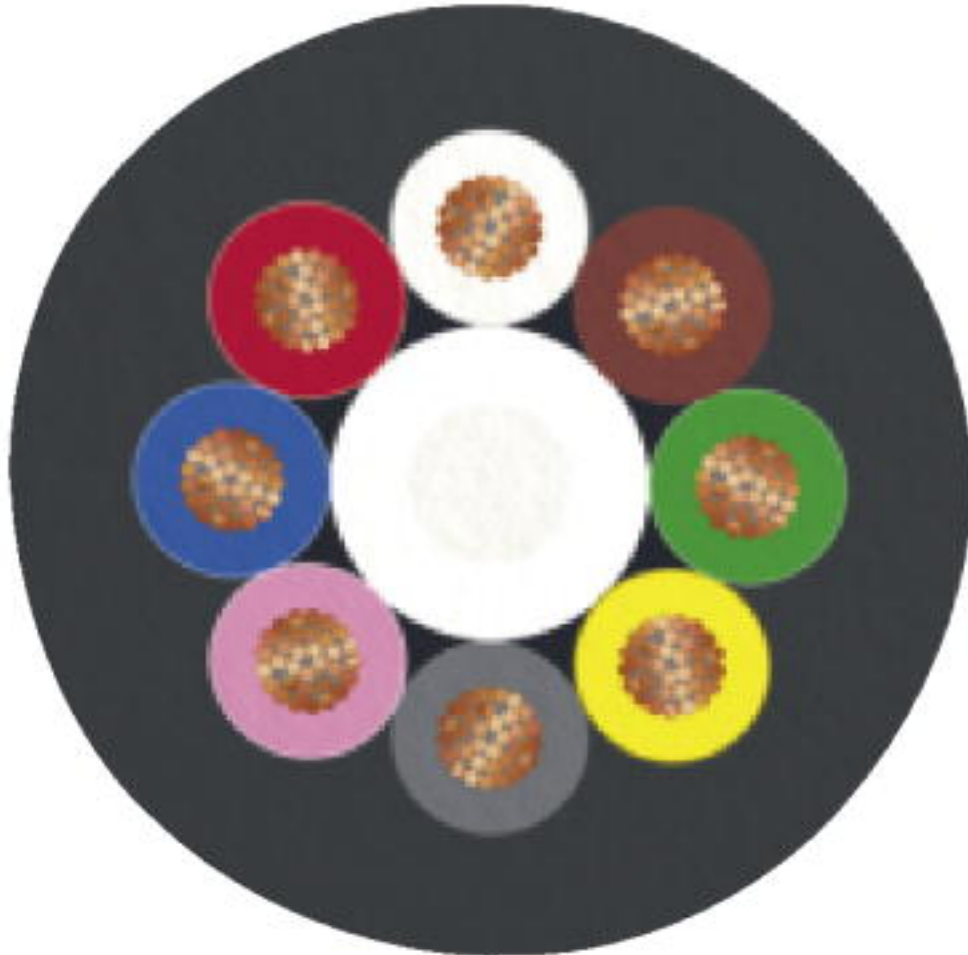
### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

# Sensor/actuator cable - SAC-8P-30,0-PUR/M12FS VA - 1401260

Cable cross section



PUR halogen-free black [PUR]

## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27060311 |
| eCl@ss 4.0    | 27060300 |
| eCl@ss 4.1    | 27060300 |
| eCl@ss 5.0    | 27061800 |
| eCl@ss 5.1    | 27061800 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27279218 |
| eCl@ss 8.0    | 27279218 |
| eCl@ss 9.0    | 27060311 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |
| UNSPSC 19.0   | 31251501 |
| UNSPSC 20.0   | 31251501 |
| UNSPSC 21.0   | 31251501 |

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