

## Sensor/actuator cable - SAC-4P-30,0-PUR/M12FR-V2A - 1512885

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Sensor/actuator cable, PUR, black-gray RAL 7021, cable length: 30 m

RoHS

### Key Commercial Data

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Packing unit           | 5 pc                                                                                                  |
| Minimum order quantity | 50 pc                                                                                                 |
| GTIN                   | <br>4 017918 910433 |
| GTIN                   | 4017918910433                                                                                         |

### Technical data

#### Dimensions

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

#### General

|                             |         |
|-----------------------------|---------|
| Rated voltage               | 24 V DC |
| Insertion/withdrawal cycles | ≥ 100   |

#### Cable

|                                               |                            |
|-----------------------------------------------|----------------------------|
| Cable type                                    | PUR halogen-free black     |
| Cable type (abbreviation)                     | PUR                        |
| Cable abbreviation                            | Li9Y11Y-HF                 |
| UL AWM style                                  | 20549 / 10493 (80°C/300 V) |
| Conductor cross section                       | 4x 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 ±0.02 mm           |
| Thickness, insulation                         | ≥ 0.21 mm                  |
| Wire colors                                   | brown, white, blue, black  |
| Overall twist                                 | 4 wires, twisted           |
| External sheath, color                        | black-gray RAL 7021        |
| Outer sheath thickness                        | approx. 0.5 mm             |
| External cable diameter D                     | 4.2 mm ±0.15 mm            |
| Minimum bending radius, fixed installation    | 5 x D                      |
| Minimum bending radius, flexible installation | 10 x D                     |

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## Technical data

### Cable

|                                                 |                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------|
| Number of bending cycles                        | 10000000                                                            |
| Minimum bending radius, drag chain applications | 10 x D                                                              |
| Traversing path                                 | 10 m                                                                |
| Traversing rate                                 | 3 m/s                                                               |
| Acceleration                                    | 10 m/s <sup>2</sup>                                                 |
| Cable weight                                    | 30 kg/km                                                            |
| Outer sheath, material                          | PUR                                                                 |
| Material conductor insulation                   | PP                                                                  |
| Conductor material                              | Bare Cu litz wires                                                  |
| Insulation resistance                           | ≥ 1 GΩ*km                                                           |
| Conductor resistance                            | ≤ 58 Ω/km                                                           |
| 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 UL 758/1581 FT2                                  |
|                                                 | DIN EN 60332-2-2 (20 s)                                             |
| Halogen-free                                    | in accordance with DIN VDE 0472 part 815                            |
|                                                 | in accordance with DIN EN 50267-2-1                                 |
| 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

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

## Sensor/actuator cable - SAC-4P-30,0-PUR/M12FR-V2A - 1512885

### Approvals

Ex Approvals

#### Approval details

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
|                    |                                                                                   |                                                                                                                                                       |               |
| Nominal voltage UN |                                                                                   | 300 V                                                                                                                                                 |               |
| Nominal current IN |                                                                                   | 4 A                                                                                                                                                   |               |

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
|                    |                                                                                   |                                                                                                                                                       |               |
| Nominal voltage UN |                                                                                   | 300 V                                                                                                                                                 |               |
| Nominal current IN |                                                                                   | 4 A                                                                                                                                                   |               |

|              |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
| cULus Listed |  |
|--------------|-------------------------------------------------------------------------------------|

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