

## Sensor/actuator cable - SAC-3P-M12Y/2X4,0-140 - 1502484

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Sensor/actuator cable, 3-position, PUR/PVC, yellow, Plug straight M12, A-coded, on free cable end, cable length: 4 m

RoHS

### Key Commercial Data

|              |                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                  |
| GTIN         | <br>4 017918 815127 |
| GTIN         | 4017918815127                                                                                         |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 4 m   |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |
|                      | IP68 |

#### General

|                             |              |
|-----------------------------|--------------|
| Rated current at 40°C       | 4 A          |
| Rated voltage               | 48 V AC      |
|                             | 60 V DC      |
| Number of positions         | 3            |
| Insulation resistance       | ≥ 10 GΩ      |
| Coding                      | A - standard |
| Status display              | No           |
| Overvoltage category        | II           |
| Degree of pollution         | 3            |
| Insertion/withdrawal cycles | ≥ 100        |

#### Material

|                                        |       |
|----------------------------------------|-------|
| Flammability rating according to UL 94 | HB    |
| Contact material                       | CuSn  |
| Contact surface material               | Ni/Au |

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### Technical data

#### Material

|                          |                                             |
|--------------------------|---------------------------------------------|
| Contact carrier material | TPU GF                                      |
| Material of grip body    | TPU, hardly inflammable, self-extinguishing |
| Material, knurls         | Zinc die-cast, nickel-plated                |

#### Standards and Regulations

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | HB |
|----------------------------------------|----|

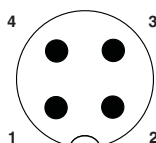
#### Cable

|                                               |                                                |
|-----------------------------------------------|------------------------------------------------|
| Cable type                                    | PUR/PVC yellow                                 |
| Cable type (abbreviation)                     | 140                                            |
| Cable abbreviation                            | LiYY-11Y                                       |
| 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            | 1.52 mm ±0.02 mm                               |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)                    |
|                                               | ≥ 0.38 mm (Outer cable sheath)                 |
|                                               | approx. 0.45 mm (Inner sheath)                 |
| Wire colors                                   | brown, blue, black                             |
| Overall twist                                 | 3 wires, twisted                               |
| External sheath, color                        | yellow                                         |
| External cable diameter D                     | 5.2 mm ±0.2 mm                                 |
| Smallest bending radius, fixed installation   | 52 mm                                          |
| Smallest bending radius, movable installation | 52 mm                                          |
| Number of bending cycles                      | 2000000                                        |
| Bending radius                                | 52 mm                                          |
| Traversing path                               | 5 m                                            |
| Traversing rate                               | 3 m/s                                          |
| Cable weight                                  | 37 kg/km                                       |
| Outer sheath, material                        | PUR                                            |
| Material, inner sheath                        | PVC                                            |
| Material conductor insulation                 | PVC                                            |
| Conductor material                            | Bare Cu litz wires                             |
| Insulation resistance                         | ≥ 100 MΩ*km (at 20 °C)                         |
| Conductor resistance                          | max. 57.3 Ω/km (at 20 °C)                      |
| Nominal voltage, cable                        | 300 V                                          |
| Test voltage, cable                           | 2500 V                                         |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)   |
|                                               | -5 °C ... 80 °C (cable, flexible installation) |

### Drawings

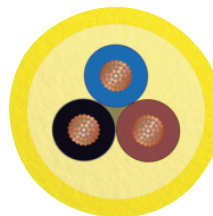
## Sensor/actuator cable - SAC-3P-M12Y/2X4,0-140 - 1502484

Schematic diagram



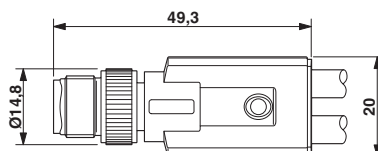
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Cable cross section



PUR/PVC yellow [140]

Dimensional drawing



Plug M12 x 1, Y distributor

### Approvals

#### Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

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                                                                                                                                                   |               |

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### Approvals

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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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