

## Sensor/actuator cable - SAC-5P- 5,0-520/M12FS VA - 1564684

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Sensor/actuator cable, 5-position, PVC, gray RAL 7001, free cable end, on Socket straight M12, A-coded, cable length: 5 m

RoHS

### Key Commercial Data

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Packing unit           | 5 pc                                                                                                  |
| Minimum order quantity | 50 pc                                                                                                 |
| GTIN                   | <br>4 046356 308793 |
| GTIN                   | 4046356308793                                                                                         |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 5 m   |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                      |       |
|----------------------|-------|
| Degree of protection | IP65  |
|                      | IP67  |
|                      | IP68  |
|                      | IP69K |

#### General

|                             |              |
|-----------------------------|--------------|
| Rated current at 40°C       | 4 A          |
| Rated voltage               | 48 V AC      |
|                             | 60 V DC      |
| Number of positions         | 5            |
| Insulation resistance       | ≥ 100 MΩ     |
| 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 |
|----------------------------------------|----|

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## Technical data

### Material

|                          |                                             |
|--------------------------|---------------------------------------------|
| Contact material         | CuSn                                        |
| Contact surface material | Ni/Au                                       |
| Contact carrier material | TPU GF                                      |
| Material of grip body    | TPU, hardly inflammable, self-extinguishing |
| Material, knurls         | Stainless steel                             |
| Sealing material         | NBR                                         |

### Standards and Regulations

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

### Cable

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Cable type                         | PVC gray                                       |
| Cable type (abbreviation)          | 520                                            |
| Cable abbreviation                 | LiYY                                           |
| 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 | 1.45 mm ±0.02 mm                               |
| Thickness, insulation              | ≥ 0.23 mm (Core insulation)                    |
|                                    | ≥ 0.76 mm (Outer cable sheath)                 |
| Wire colors                        | Brown, white, blue, black, gray                |
| Overall twist                      | 5 wires around filler to the core              |
| Length of twist, overall twist     | 55 mm                                          |
| External sheath, color             | gray RAL 7001                                  |
| External cable diameter D          | 5.9 mm ±0.15 mm                                |
| Cable weight                       | 54 kg/km                                       |
| Outer sheath, material             | PVC                                            |
| Material, filler                   | PVC                                            |
| Material conductor insulation      | PVC                                            |
| Conductor material                 | Bare Cu litz wires                             |
| Insulation resistance              | ≥ 1 GΩ*km (at 20 °C)                           |
| Conductor resistance               | max. 58 Ω/km (at 20 °C)                        |
| Nominal voltage, cable             | ≤ 300 V                                        |
| Test voltage, cable                | ≥ 3000 V                                       |
| Flame resistance                   | As per UL-Style 2464                           |
| Ambient temperature (operation)    | -25 °C ... 80 °C (cable, fixed installation)   |
|                                    | -5 °C ... 80 °C (cable, flexible installation) |

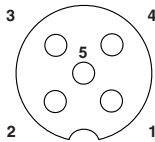
### Environmental Product Compliance

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

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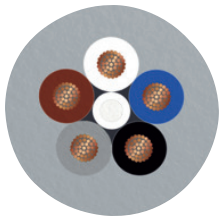
Drawings

Schematic diagram



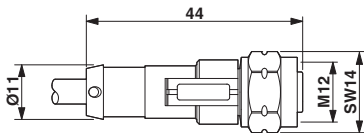
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section



PVC gray [520]

Dimensional drawing



Circuit diagram



M12 x 1 socket, straight

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 |                                                                                     | 125 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 |                                                                                   | 125 V                                                                                                                                                 |               |
| Nominal current IN |                                                                                   | 4 A                                                                                                                                                   |               |

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

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