

## Sensor/actuator cable - SAC-4P- 5,0-150/M12FR - 1433443

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Sensor/actuator cable, 4-position, PUR halogen-free, irradiated, orange RAL 2003, free cable end, on Socket angled M12, A-coded, cable length: 5 m

As shown in the illustration but with an orange conductor

RoHS

### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 1 pc                                                                                                    |
| Minimum order quantity | 25 pc                                                                                                   |
| GTIN                   | <br>4 046356 344982 |
| GTIN                   | 4046356344982                                                                                           |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

#### Ambient conditions

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

#### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 4 A          |
| Rated voltage         | 250 V AC     |
|                       | 250 V DC     |
| Number of positions   | 4            |
| Insulation resistance | ≥ 100 MΩ     |
| Coding                | A - standard |
| Status display        | No           |
| Overvoltage category  | II           |

## Sensor/actuator cable - SAC-4P- 5,0-150/M12FR - 1433443

### Technical data

#### General

|                             |       |
|-----------------------------|-------|
| Degree of pollution         | 3     |
| Insertion/withdrawal cycles | ≥ 100 |

#### Material

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Flammability rating according to UL 94 | HB                                          |
| Contact material                       | CuSn                                        |
| 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                                         |

#### Standards and Regulations

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

#### Cable

|                                               |                                    |
|-----------------------------------------------|------------------------------------|
| Cable type                                    | PUR irradiated halogen-free orange |
| Cable type (abbreviation)                     | 150                                |
| Cable abbreviation                            | D12YSL11X-OB                       |
| Conductor cross section                       | 4x 0.34 mm <sup>2</sup>            |
| AWG signal line                               | 22                                 |
| Conductor structure signal line               | 19x 0.15 mm                        |
| Core diameter including insulation            | 1.05 mm ±0.05 mm (Signal line)     |
| Wire colors                                   | brown, white, blue, black          |
| Overall twist                                 | 4 wires, twisted                   |
| Length of twist, overall twist                | 27 mm                              |
| External sheath, color                        | orange RAL 2003                    |
| External cable diameter D                     | 5.2 mm ±0.2 mm                     |
| Smallest bending radius, fixed installation   | min. 15 mm                         |
| Smallest bending radius, movable installation | min. 30 mm                         |
| Number of bending cycles                      | 5000000                            |
| Bending radius                                | 52 mm                              |
| Traversing path                               | 10 m                               |
| Traversing rate                               | 3 m/s                              |
| Torsion force                                 | ± 360 °/m                          |
| Outer sheath, material                        | PUR                                |
| Material conductor insulation                 | PE                                 |
| Conductor material                            | Bare Cu litz wires                 |
| Conductor resistance                          | max. 57 Ω/km                       |
| Nominal voltage, cable                        | 320 V (AC)                         |
| Test voltage, cable                           | 2500 V (50 Hz, 5 minutes)          |
| Special properties                            | Silicone-free                      |

# Sensor/actuator cable - SAC-4P- 5,0-150/M12FR - 1433443

## Technical data

### Cable

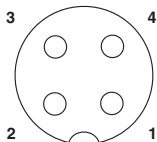
|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
|                                 | Irradiated                                       |
| Halogen-free                    | The cable is halogen-free                        |
| Other resistance                | hydrolysis and microbe resistant                 |
|                                 | Resistant to welding splashes                    |
| Ambient temperature (operation) | -50 °C ... 105 °C (cable, fixed installation)    |
|                                 | -40 °C ... 105 °C (cable, flexible installation) |

### Environmental Product Compliance

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

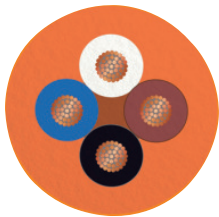
## Drawings

Schematic diagram



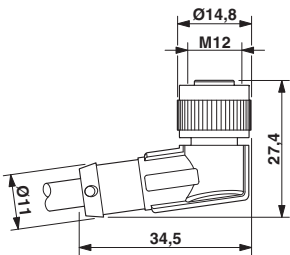
Pin assignment M12 socket, 4-pos., A-coded, view female side

Cable cross section



PUR irradiated halogen-free orange [150]

Dimensional drawing



M12 x 1 socket, angled

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

## Sensor/actuator cable - SAC-4P- 5,0-150/M12FR - 1433443

### 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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