

Sensor/Actuator cable - SAC-5P-M12MS/ 1,0-PUR/M12FR3LV - 1693953

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Sensor/Actuator cable, 5-position, PUR halogen-free, Irradiated, orange RAL 2003, Plug straight M12, A-coded, on Socket angled M12, A-coded, with 3 LEDs, Cable length: 1 m, Customer-specific version

Key commercial data

| | |
|--------------------------------------|----------|
| Packing unit | 1 1 |
| Weight per Piece (excluding packing) | 59.3 GRM |
| Custom tariff number | 85444290 |
| Country of origin | India |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 1 m |
|-----------------|-----|

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |

General

| | |
|-----------------------------|--------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 24 V |
| Number of positions | 5 |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Status display | 3 LEDs |
| Surge voltage category | II |
| Pollution degree | 3 |
| Insertion/withdrawal cycles | ≥ 100 |

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Technical data

Material

| | |
|-----------------------------------------|---------------------------------------------|
| Inflammability class 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 |

Cable

| | |
|-----------------------------------------------|-----------------------------------------------------------------|
| Cable type | PUR irradiated halogen-free orange |
| Cable type (abbreviation) | 150 |
| Cable abbreviation | D12YSL11X-JB |
| Conductor cross section | 4x 0.34 mm ² (signal line) |
| | 1x 0.5 mm ² (PE connection) |
| AWG signal line | 22 |
| AWG power supply | 20 |
| Conductor structure signal line | 42x 0.10 mm |
| Conductor structure, voltage supply | 24x 0.15 mm |
| Wire colors | Brown, blue, black, white, green/yellow |
| Overall twist | 5 cores, twisted |
| External sheath, color | orange RAL 2003 |
| External cable diameter D | 5.2 mm ± 0.2 mm |
| Smallest bending radius, fixed installation | min. 20 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 |
| Outer sheath, material | PUR |
| Material conductor insulation | PE |
| Conductor material | Bare Cu litz wires |
| Conductor resistance | ≤ 57.5 Ω/km (with 0.34 mm ² conductor cross section) |
| | ≤ 39 Ω/km (with 0.5 mm ² conductor cross section) |
| Nominal voltage, cable | 250 V (AC) |
| Test voltage, cable | 2000 V (50 Hz, 5 minutes) |
| Special properties | Silicone-free |
| Flame resistance | DIN VDE 0472 part 804, test type B |
| Halogen-free | The cable is halogen-free |

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Technical data

Cable

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

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

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Approvals

Ex Approvals

Approvals submitted

Approval details

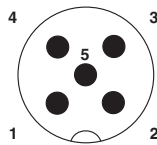
| | |
|--------------------------------|------|
| UL Listed | |
| Nominal current I _N | 4 A |
| Nominal voltage U _N | 24 V |

| | |
|--------------------------------|------|
| cUL Listed | |
| Nominal current I _N | 4 A |
| Nominal voltage U _N | 24 V |

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

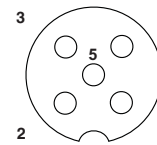
Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

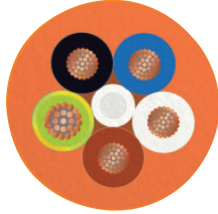
Schematic diagram



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

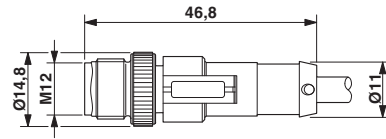
Sensor/Actuator cable - SAC-5P-M12MS/ 1,0-PUR/M12FR3LV - 1693953

Cable cross section



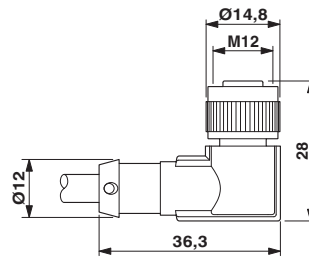
PUR irradiated halogen-free orange [150]

Dimensioned drawing



M12 x 1 plug, straight

Dimensioned drawing



M12 x 1 socket, angled