

Sensor/Actuator cable - SAC-4P- 6,0-186/M12FR - 1517783

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Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free cable end, on Socket angled M12, A-coded, Cable length: 6 m



Key commercial data

| | |
|----------------------|----------|
| Packing unit | 1 1 |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|--|-------|
| Length of cable | 6 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 | 250 V |
| Number of positions | 4 |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Status display | No |
| Surge voltage category | II |
| Pollution degree | 3 |

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Technical data

General

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

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 POWER 0.75 mm ² black |
| Cable type (abbreviation) | 186 |
| Cable abbreviation | LiY11Y |
| Conductor cross section | 4x 0.75 mm ² (power line) |
| AWG signal line | 18 |
| Conductor structure signal line | 42x 0.15 mm |
| Core diameter including insulation | 1.75 mm ±0.05 mm |
| Thickness, insulation | ≥ 0.23 mm (Core insulation) |
| | ≥ 0.76 mm (Outer cable sheath) |
| Wire colors | brown, white, blue, black |
| Overall twist | 4 wires, twisted |
| External sheath, color | Black-gray RAL 7021 |
| External cable diameter D | 5.9 mm ±0.15 mm |
| Smallest bending radius, movable installation | 59 mm |
| Number of bending cycles | 2000000 |
| Bending radius | 59 mm |
| Traversing path | 5 m |
| Traversing rate | 3 m/s |
| Acceleration | 5 m/s ² |
| Cable weight | 57 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | PVC |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 1 MΩ*km (at 20 °C) |
| Conductor resistance | max. 26 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V |

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Technical data

Cable

| | |
|---------------------------------|--|
| Test voltage, cable | ≥ 3000 V |
| Flame resistance | in accordance with DIN UL-Style 20549 |
| Ambient temperature (operation) | -25 °C ... 80 °C (cable, fixed installation) |
| | -5 °C ... 80 °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

Ex Approvals

Sensor/Actuator cable - SAC-4P- 6,0-186/M12FR - 1517783

Approvals

Approvals submitted

Approval details

| | |
|--------------------------------|-------|
| UL Listed | |
| Nominal current I _N | 4 A |
| Nominal voltage U _N | 300 V |

| | |
|--------------------------------|-------|
| cUL Listed | |
| Nominal current I _N | 4 A |
| Nominal voltage U _N | 300 V |

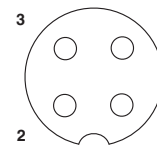
| | |
|--------------|--|
| cULus Listed | |
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Drawings

Circuit diagram

Contact assignment of the M12 socket

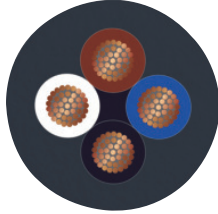
Schematic diagram



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

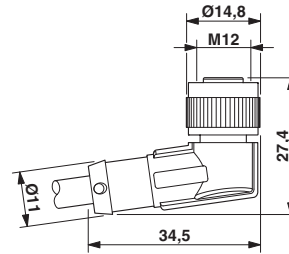
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Cable cross section



PUR POWER 0.75 mm² black [186]

Dimensioned drawing



M12 x 1 socket, angled