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Sensor/Actuator cable - SAC-5P-M12MS/0,3-PVC/M12FR-3L - 1415703

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Sensor/Actuator cable, 5-position, PVC, black RAL 9005, Plug straight M12, A-coded, on Socket angled M12, A-coded, with 3 LEDs, Cable length: 0.3 m

Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Convenient: increased machine availability thanks to quick and easy diagnostics

Key Commercial Data

| | |
|--------------|---------------------|
| Packing unit | 1 STK |
| GTIN | 4 055626 052304 |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 0.3 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 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | 3 LEDs |
| Protective circuit/component | Unwired |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |

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Technical data

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

| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB |

Cable

| | |
|---|---|
| Cable type | PVC black |
| Cable type (abbreviation) | PVC |
| Cable abbreviation | LiYY |
| UL AWM style | 2464 / 1729 (80°C/300 V) |
| Conductor cross section | 5x 0.34 mm ² (Signal line) |
| AWG signal line | 22 |
| Conductor structure signal line | 19x 0.15 mm |
| Core diameter including insulation | 1.26 mm ±0.05 mm |
| Thickness, insulation | ≥ 0.23 mm (Core insulation) |
| Wire colors | brown, white, blue, black, green-yellow |
| Overall twist | 5 wires around filler to the core |
| External sheath, color | black RAL 9005 |
| Outer sheath thickness | ≥ 0.76 mm |
| External cable diameter D | 5 mm ±0.15 mm |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Cable weight | 51 kg/km |
| Outer sheath, material | PVC |
| Material conductor insulation | PVC |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 200 MΩ*km (at 20 °C) |
| Conductor resistance | max. 57 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) | -40 °C ... 80 °C (cable, fixed installation) |
| | -25 °C ... 80 °C (cable, flexible installation) |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 8.0 | 27279218 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC001855 |
|----------|----------|

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

Approval details

| | |
|--------------------|------|
| UL Listed | |
| Nominal current IN | 4 A |
| Nominal voltage UN | 24 V |

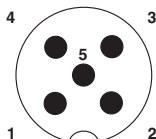
| | |
|--------------------|------|
| cUL Listed | |
| Nominal current IN | 4 A |
| Nominal voltage UN | 24 V |

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

Drawings

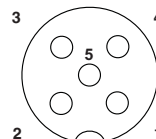
Sensor/Actuator cable - SAC-5P-M12MS/0,3-PVC/M12FR-3L - 1415703

Schematic diagram



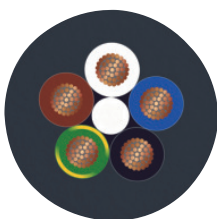
Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



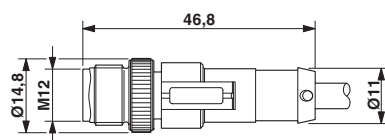
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section



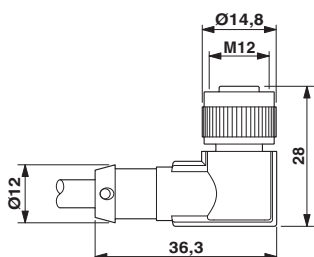
PVC black [PVC]

Dimensional drawing



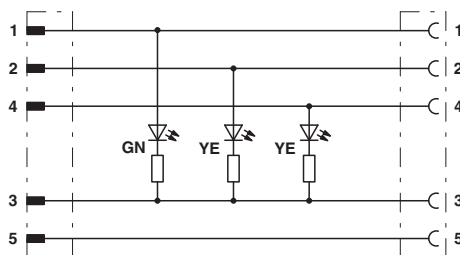
M12 x 1 plug, straight

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of M12 plugs / sockets with 3 LEDs

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|---|-------------|-------------------------------|----------------------------|
| Sensor/Actuator cable, 5-position, PVC, black RAL 9005, Plug straight M12, A-coded, on Socket angled M12, A-coded, with 3 LEDs, Cable length: 0.3 m | 1415703 | SAC-5P-M12MS/0,3-PVC/M12FR-3L | Buy on EAN |