

Sensor/Actuator cable - SAC-5P-M12MS/ 4,0-PUR/M12FS SH - 1511569

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Sensor/Actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, shielded, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 4 m

RoHS

Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 STK |
| Minimum order quantity | 25 STK |
| GTIN |  4 017918 905866 |
| GTIN | 4017918905866 |
| Weight per Piece (excluding packing) | 238.230 g |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 4 m |
|-----------------|-----|

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

General

| | |
|-----------------------------|--------------|
| Rated current at 40°C | 4 A |
| Number of positions | 5 |
| Coding | A - standard |
| Status display | No |
| Insertion/withdrawal cycles | ≥ 100 |

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Technical data

Material

| | |
|--------------------------|-------|
| Contact material | CuSn |
| Contact surface material | Ni/Au |

Cable

| | |
|---|--|
| Cable type | PUR halogen-free black |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | LiF9YC11Y |
| UL AWM style | 20549 |
| Conductor cross section | 5x 0.34 mm ² (Signal line) |
| AWG signal line | 22 |
| Conductor structure signal line | 42x 0.10 mm |
| Core diameter including insulation | 1.27 mm ±0.02 mm (Signal line) |
| Thickness, insulation | ≥ 0.21 mm |
| Wire colors | Brown, white, blue, black, gray |
| Overall twist | 5 wires around filler to the core |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 85 % |
| External sheath, color | black-gray RAL 7021 |
| External cable diameter D | 5.9 mm ±0.2 mm |
| Smallest bending radius, fixed installation | 29.5 mm |
| Smallest bending radius, movable installation | 59 mm (up to +60 °C) |
| Number of bending cycles | 4000000 |
| Bending radius | 59 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Cable weight | 48 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | 70 GΩ*km (at 20 °C) |
| Conductor resistance | max. 57 Ω/km (at 20 °C) |
| Nominal voltage, cable | 300 V (at 20 °C) |
| Test voltage Core/Core | 3000 V (at 20 °C) |
| Special properties | Flexible cable conduit capable |
| Flame resistance | in acc. with UL FT-2 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Other resistance | hydrolysis and microbe resistant |

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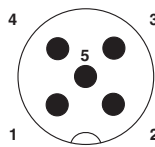
Technical data

Cable

| | |
|---------------------------------|--|
| | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -25 °C ... 80 °C (cable, flexible installation) |

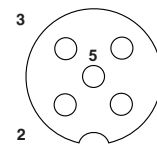
Drawings

Schematic diagram



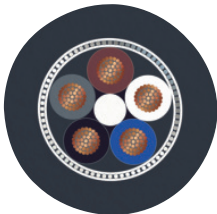
Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



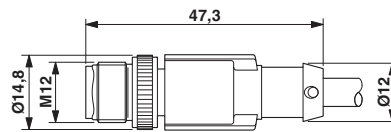
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section

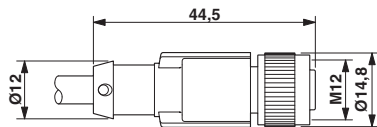


PUR halogen-free black [PUR]

Dimensional drawing



Dimensional drawing



Circuit diagram



Diagram

Approvals

Approvals

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Approvals


Approvals


UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

| | |
|---|-------|
| UL Listed  http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 221474 | |
| Nominal current IN | 4 A |
| Nominal voltage UN | 125 V |

| | |
|--|-------|
| cUL Listed  http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 221474 | |
| Nominal current IN | 4 A |
| Nominal voltage UN | 125 V |

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