

Sensor/Actuator cable - SAC-4P-M8MS/ 0,5-542/FR SCO BK - 1406200


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Sensor/Actuator cable, 4-position, PVC, yellow, Plug straight M8, on Socket angled M12 SPEEDCON, A-coded, Cable length: 0.5 m



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 1 STK |
| Minimum order quantity | 50 STK |
| GTIN |  4 046356 798501 |
| GTIN | 4046356798501 |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 0.5 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 | 30 V |
| Number of positions | 4 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| | M8 connector IEC 61076-2-104 |
| Status display | No |
| Protective circuit/component | Unwired |

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Technical data

General

| | |
|-----------------------------|------------------------|
| Overvoltage category | II |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 connector) |
| | 0.2 Nm (M8 connectors) |

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 |
| Standard designation | M8 connector |
| Standards/regulations | IEC 61076-2-104 |
| Flammability rating according to UL 94 | HB |

Cable

| | |
|---|---------------------------|
| Cable type | PVC yellow 105 °C |
| Cable type (abbreviation) | 542 |
| UL AWM style | 2517 (105 °C / 300 V) |
| AWG signal line | 24 |
| Core diameter including insulation | 1.12 mm ±0.03 mm |
| Wire colors | brown, blue, black, white |
| Overall twist | 4 wires, twisted |
| External sheath, color | yellow |
| External cable diameter D | 4.4 mm ±0.2 mm |
| Minimum bending radius, flexible installation | 8 x D |
| Cable weight | 25 kg/km |
| Outer sheath, material | PVC |
| Material conductor insulation | PVC |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ (550 M Ohms/m @ 500V) |
| Conductor resistance | max. 79.7 Ω/km (20° C) |
| Nominal voltage, cable | 300 V |
| Flame resistance | FT4 |
| Other resistance | UV resistant |

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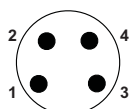
Technical data

Cable

| | |
|---------------------------------|---|
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed installation) |
|---------------------------------|---|

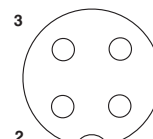
Drawings

Schematic diagram



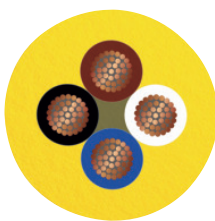
Pin assignment M8 plug, 4-pos., view male side

Schematic diagram



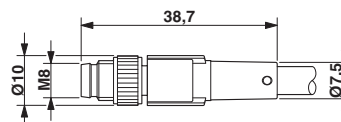
Pin assignment M12 socket, 4-pos., A-coded, view female side

Cable cross section



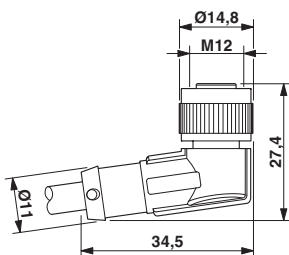
PVC yellow 105 °C [542]

Dimensional drawing



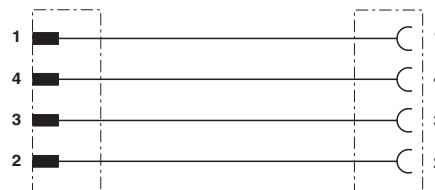
M8 x 1 male plug, straight version

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of M8 plugs / M12 sockets

Approvals

Approvals

Approvals


UL Listed / cUL Listed / cULus Listed


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Approvals

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 |  | | |
|--------------|---|--|--|

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