

## Sensor/Actuator cable - SAC-8P-MS/ 5,0-542 SH SCO BK - 1406072

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Sensor/Actuator cable, 8-position, PVC, yellow, shielded, Plug straight M12 SPEEDCON, A-coded, on free cable end, Cable length: 5 m



### Key Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Packing unit                         | 1 STK         |
| Weight per Piece (excluding packing) | 320.000 g     |
| Custom tariff number                 | 85444290      |
| Country of origin                    | United States |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

#### Ambient conditions

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

#### General

|                              |                               |
|------------------------------|-------------------------------|
| Rated current at 40°C        | 2 A                           |
| Rated voltage                | 30 V                          |
| Number of positions          | 8                             |
| Insulation resistance        | ≥ 100 MΩ                      |
| Coding                       | A - standard                  |
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| 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) |

### Material

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Flammability rating according to UL 94 | HB                                          |
| Contact material                       | CuZn                                        |
| 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                |

### Standards and Regulations

|                                        |                 |
|----------------------------------------|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| 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                                   | white, brown, green, yellow, gray, pink, blue, red |
| Overall twist                                 | 8 wires around filler to the core                  |
| Shielding                                     | Tinned copper braided shield                       |
| Optical shield covering                       | 85 %                                               |
| External sheath, color                        | yellow                                             |
| External cable diameter D                     | 6.3 mm ±0.2 mm                                     |
| Minimum bending radius, flexible installation | 12 x D                                             |
| Cable weight                                  | 58 kg/km                                           |
| Outer sheath, material                        | PVC                                                |
| Material, filler                              | PP                                                 |
| 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                                              |

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### Technical data

#### Cable

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

### Drawings

Cable cross section



PVC yellow 105 °C [542]

### Approvals

#### Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

#### Approval details

|                                                                                                                                                                                                                                                                   |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| UL Listed  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 221474 |      |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                    | 2 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                    | 30 V |

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### Approvals

|                                                                                                                                                                                                                                                                  |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| cUL Listed  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 221474 |      |
|                                                                                                                                                                                                                                                                  |      |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                   | 2 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                   | 30 V |

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