

## Sensor/Actuator cable - SAC-8P- 15,0-542/ FR SH SCO BK - 1418061


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Sensor/Actuator cable, 8-position, PVC, yellow, shielded, free cable end, on Socket angled M12 SPEEDCON, A-coded, Cable length: 15 m



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 STK   |
| GTIN                                 | <br>4 055626 211695 |
| GTIN                                 | 4055626211695   |
| Weight per Piece (excluding packing) | 1.000 g   |
| Custom tariff number                 | 85444290  |
| Country of origin                    | United States   |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 15 m |
|-----------------|------|

#### Ambient conditions

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

#### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 2 A          |
| Rated voltage         | 30 V         |
| Number of positions   | 8            |
| Insulation resistance | ≥            |
| Coding                | A - standard |

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## Technical data

### General

|                              |                               |
|------------------------------|-------------------------------|
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| Status display               | No                            |
| Protective circuit/component | Unwired                       |
| 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                |
| 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 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  |

# Sensor/Actuator cable - SAC-8P- 15,0-542/ FR SH SCO BK - 1418061

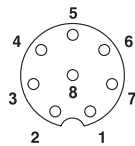
## Technical data

### Cable

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

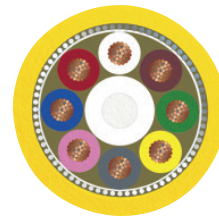
## Drawings

Schematic diagram



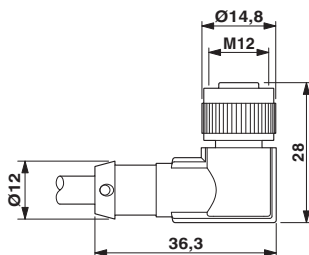
Pin assignment M12 socket, 8-pos., A-coded, view female side

Cable cross section



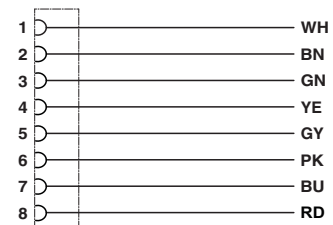
PVC yellow 105 °C [542]

Dimensional drawing



M12 x 1 socket, angled, shielded

Circuit diagram



Contact assignment of the M12 socket

## Approvals

Approvals

Approvals


UL Listed / cUL Listed / cULus Listed


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## Approvals

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 IN |   | 4 A   |               |
| Nominal voltage UN |   | 30 V  |               |

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